# he Itlining Immal,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1683.—Vol. XXXVII.

LONDON, SATURDAY, NOVEMBER 23, 1867.

(WITH SUPPLEMENT) STAMPED ....SIXPENCE UNSTAMPED..FIVEPENCE

The Mining Exchange, London.

NOTICE.—THE BUSINESS of the MINING EXCHANGE
WILL, for the future, BE CARRIED ON at No. 5. FINCH LANE,
LONDON, E.C. The Rules and Regulations of the Mining Exchange are similar
to those of the Stock Exchange, one of which strictly prohibits the Members
from advertising shares, either directly or indirectly, at fixed prices.
Nov. 1, 1867. By order of the Committee, W. E. JOHNSON, Sec.

MR. JAMES CROFTS, STOCK AND SHAREBROKER,
No. 1, FINCH LANE, CORNHILL.
(Established 24 years.)
Holders of mining shares difficult of sale in the open market may find purchasers for the same through Mr. Crofts agency. Also parties requiring advice how to act in the disposal or abandonment of doubtful mining stocks may profitably avail of Mr. Crofts' long experience on the market in all cases of doubt or difficulty, legal or otherwise.
The following moderate priced mines, paying regular dividends, are specially recommended for investment. The rate of dividend per annum on each mine will be furnished on application:—East Caradon, East Lovell, Great Laxey, Great Wheal Vor, Prince of Wales, Providence, West Chiverton, Wheal Basset, Wheal Mary Ann, West Seton, Herodsfoot, South Frances, and Wheal Kitty (8t. Agnes):

(St. Agnes). s,\* Mr. Chofts offers advice respecting mining shares to BUY, SELL, or AVY to Bankers: National Bank of Scotland, Finch-lane.

Bankers: National Bank of Sootland, Finch-lane.

M. R. JOHN BUMPUS), 44, THREADNEEDLE STREET,

base FOR SALE the following shares, free of commission:

50 Anglo-Brazil., 128,
25 Bryn Gwiog, 238,
25 Bryn Gwiog, 238,
25 East Carn Brea, 42, 39
25 Caradon Consols.

50 Chontales (£4½ pd.),
25 118, 3d,
25 Drake Wails,
25 Don Pedro, £2 148, 9d
16 Rast Rosewarne, 78 3d
26 New Quebrada, 198,
27 E. Wh. Steon, 58, 9d,
20 Clowestimister, 242/g
20 Ww. M. Kitty, 158, 6d
20 Clowestimister, 242/g
20 West Bross Downs, Crolake, West Drake
Walls, Marke Valleys,
Wheel Seton, and Great North Downs shares at full market rates.

When seton, and offers with the Country of the Country of the Country of the Stock and Share Markets; a list of all the dividends paid it review of the Stock and Share Markets; a list of all the dividends paid it october; a selection of investments paying 10 to 16 per cent; and such information as is necessary to guide intending investors. 6d. per copy, or 5d. and

, post free. ished by Mr. Baker Lelean, at his offices, 11, Royal Exchange, London. W I L L I A M W A
STOCK AND SHAREDBALER.
No. 29, THREADNEEDLE STREET, LONDON, E.C. WAR

MR. JOHN BATTERS, STOCK AND MINING SHAREBROKER, 18, THROGMORTON STREET, LONDON, E.C. MR. WILLIAM SEWARD, STOCK AND SHAREDEALER,

MR. E. J. BARTLETT, STOCK AND SHAREDEALER 30, GREAT ST. HELEN'S, E.C.

MESSES. WARD AND JACKMAN, STOCK AND SHAREDEALERS,

M. R. EDWARD BREWIS, PALMERSTON BUILDINGS, 34, OLD BROAD STREET, LONDON, E.O., has FOR SALE:—10 Nort Covity, 25 Kast Bottle Hill, 2 West Chiverton, 10 Grenville, 25 Hennock Iron 10 Chiverton, 25 West Prince of Wales, 2 Bullers, 8 Summer Hill Lead, 29 Har wood, 25 Cashwell, 10 West Cornwall Granite, £7½ paid, 15 Chontales, 20 Wes Kitty. BUSINESS in all shares having a market value.

Bankers: National Bank, London, E.C.

JOHN RISLEY, STOCK AND SHAREBROKER
(SWORN BROKER),

48, THREADNEEDLE STREET, LONDON, E.C.

J. BISLEY recommends the purchase of shares in Wheal Grenville, East Grenville, Great Retailack, North Retailack, and East Wheal Russell, as they are likely to rise 30 per cent. in a short time.

Bankers: London and Westminster, Lothbury.

EORGE RICE, STOCK AND SHAREDEALER, 78, OLD BROAD STREET, LONDON, E.C. (Member of the Mining Exchange), 25 years' experience), TRANSACTS BUSINESS in MINING SHARES, at close prices.

Money advanced on mining shares. Bankers: Bank of England.

MR. WILLIAM MARLBOROUGH, 1, GREAT ST. HELEN'S,

B. WILLIAM MAKIBUROUGH, 2, UREAL SI. HELBAN S.

BISHOPSGATE STREET, LONDON, E.C. (Retablished 13 years), has

FOR SALE the FOLLOWING SHARES, at nett prices:

10 Anglo-Brazilian, 11s. 25 Byrg Gwlog, 290, 9d. 30 Chontales, £1 dis.

10 Chiverton Moor, £6%
10 E. Carn Brea, £2 6 3
10 E. Carn Brea, £2 6 3
10 Maske Valley, £6%
10 Fontino, 18s. 9d. 9d. 15 East Grenville, 42s. 25 North Downs, 19s. 9d. 40 No. Treskerby, 34s 6d. 30 Fronce of Wales, 31s 6 30 No. Retailack, £5%, 25 West Basset, 32s. 6d. 30 Wh. Grenville, 2s. 3d. 40 Wh. Grenville, 2s. 3d. 50 Tincreft, £13%
10 So. Trevenna, 37s. 6d. 50 Wh. Kitzy (St. Agn.), ex div., £2%
10 So. Trevenna, 37s. 6d. 50 Wh. Trevenna, £7 10s

W. Marlborough is a BUYER or SELLER of Tamar Valley shares.

MR. GEORGE BUDGE, STOCK AND SHAREDEALER, M. R. GEORGE BUDGE, STOCK AND SHAREDEALER,
19 rears), has FOR SALE at net prices;—20 South Darren, 22s. 6d.; 2 Minera,
22s.5; 1 Devon Great Consols, £427/2; 7 Maos-y-safu, £294/2; 10 Summer Hull,
22s/2; 1 Devon Great Consols, £427/2; 7 Maos-y-safu, £294/2; 10 Summer Hull,
22s/2; 10 Frank Mills, 17s.; 40 West Wheal Kitty, 14s. 9d.; 40 Gawton, £3 9s. 9d.;
23 Great North Downs, £44/2; 20 Rose and Chiverton United; 50 Okel Tor, 20s.;
24 Great North Downs, £45/2; 20 Rose and Chiverton United; 50 Okel Tor, 20s.;
25 Great South Tolyerton; 15 North Retallagk, £44 s. 6d.; 14 Margery, £61 8s. 9d.;
26 Great South Gelverton; 15 North Retallagk, £44 s. 6d.; 14 Margery, £61 8s. 9d.;
27 East Bottle Hill, 2s.; 30 North Downs, £8;; 100 Redmoor, 2s.; 10 Marke
Yalley; 50 South Grevrille, 2s. 3d.; 50 Chontlaces, £34/2; 50 Lovell Consols; 40
Mew Lovell, 10s.; 50 East Rosewarne; 20 Bryn Gwlog; 50 Rossa Grande; 20
Great North Laxey, £3s.; 60 New Quebrada; 20 South Herrodsfoot; 50 Camborne
Vean, 18s. 9d.; 2 Providence; 10 WestGreat Work; 25 Wheal Kitty (St. Agnes),
£3; 20 East Gunnislake.

ORNWALL AND DEVON MINES —

FOREIGN GOLD MINES, &c.

PETER WATSON'S "WEEKLY MINING CIRCULAR AND SHARE LIST—
SYNOPSIS OF CORNISH AND DEVON MINES," of Friday, Nov. 22, No. 451

Vol. IX., Price 6d. oseh copy, forwarded on application, contains utformation on the following mines:

North Wh. Chiverton.

West Chiverton.

West Chiverton Moor.

Chiverto

Carn Brea.

Wheal Seton.
West Wheal Seton.
North Wheal Crofty.
West Caradon.
South Caradon.
Wheal Jane.
North Roskear.
Gawton.

Wheal Mary Ann.
Bryn Gwlog.
East Wheal Grenville.
Caradon Consols.
Devon Great Consols.
East Wheal Basset.
Great Retailack.
South Frances.
Great South Tolgus.
East Wheal Grenville.
Don Pedro.
Chontailes.
Frontino.
Anglo. Brazilian. Carn Brea.
Tincroft.
North Downs.
West Great Work.
New Wheal Seton.
West Drake Walls.
Marke Valley.
Wheal Trelawny.
East Carn Brea. South Caradon, Wheal Trelawny, Wheal Jane, East Carn Brea. North Roskear, Prince of Wales, Gawton. Wheal Agar. Wheal Grenville, Wast Wheal Kitty, East Caradon. Wast Wheal Kitty, East Caradon. With a Leading Article on the Chontales Gold Mines, Advance in the Copper Standard, &c. tandard, &c.
PETER WATSON, Stock and Sharedealer, 79, Old Broad-street, London, E.C.

THE LONDON DAILY RECORD—STOCK AND SHARE LIST—STOCK EXCHANGE SECURITIES. Published every evening at 5 o'clock. It contains the latest prices of railways, banks, mines, foreign atocks and bonds, financial, insurance, and miscellaneous shares, remarks on the daily rise and fall in prices, with advice as to purchase and sales. Annual subscription, £1 is.; by post, £2 5s.; monthly subscription—by post, 4s.; single copy, 10; by nost, 24.

PETER WATSON, Stock and Sharedealer, 79, Old Broad-street, London

INVESTMENT OR SPECULATION.—A SELECTED LIST OF RAILWAYS, BANKS, MINES, COLONIAL SECURITIES, FOREIGN GOVERNMENT BONDS, &c., forwarded to bona fide inventors on application, in addition to the high rate of interest many of the above are paying, there is now every probability of a great rise in market value.

PETER WATSON, STOCK AND SHAREDEALER, 79, OLD BROAD STREET, LONDON (three doors only from Hercules-passage, entrance to the Stock Exchange).

Twenty-three years' experience.

(Two in Cornwall and Twenty-one in London.)

Bankers: The Alliance Bank, and the Union Bank of London.

References given and required (when necessary) in all the principal towns of the United Kingdom.

M. R. EDWARD COOKE, STOCK AND SHAREDEALER, 76, OLD BROAD STREET, LONDON, E.C. Orders for all kinds of Stock Exchange securities, either by letter or telegraph promptly attended to.

N.B.—A Dally Price List on application.

Satisfactory references given in any town in the United Kingdom.

Bankers: Alliance Bank.

Clate of the firm of WATSON and CUELL),
S T O C K A N D S H A R E D E A L E R
1, FINCH LANE, CORNHILL.
References exchanged.
All transactions can be for cash or account.
Bankers: Bank of England.

Bankers: Bank of England.

M. R. T. ROSEWARNE, 81, OLD BROAD STREET,
LONDON, has BUSINESS in the following shares for cash or time on:—
"Clifford.
"Chiverton Moor,
Chontales.
Devon Consols.
"Sant Russell.
"East Carn Brea.
Phince of Wales.—My reports to-day are the most encouraging I ever received from this mine. The 55 west is valued at £25, and the 25 east, from all appearances, will be worth over £40 the next time the lode is taken down. Shares are 50s. to 52s., and should be bought at once. I am a BUYER of any part of 2000 shares, also of 2000 East Carn Brea. 2000 Okel Tor, 1000 North Treskerby, 500 Chiverton Moor, 2000 Frontino, 500 Wheal Agar, 500 Don Pedro, 200 Rossa Grande, and 500 Pestarena.
An OffER WANTED for South Grenville.
T. Rosswarke can recommend three mines which are safe to have a great rise; he should be consulted at once upon the matter.

Money advanced on good mining shares. Office hours from 10 to 4—
Bankers: Bank of England.

Bankers: Bank of England. MR. J. B. REYNOLDS, STOCK AND SHAREDEALER, 70 and 71, BISHOPSGATE STREET WITHIN, LONDON, E.C., par ticularly recommends the purchase of sound mining securities. The experience of the past illustrates the wisdom of this advice.

of the past lilustrates the wisdom of this advice.

Mr. REYNOLDs refers with pleasure to the present position of mines which he ass from time to time recommended, and feels assured that there is a very avourable future in store for them.

Business transacted at nott prices in all kinds of stocks and shares. Mines nepected on very advantageous terms.

Mr. REYNOLDs is ready to do business in—
West Wheal Kitty.

Rose and Chiverton.
West Great Work.

West Great Work.

West Great Work.

Wheal Chiverton.

Bankers: City Bank.

Restablished Eleven Years.

70 and 71, Bishopsgate-street Within, London, E.C.

WEST ST. IVES.—MR. J. B. REYNOLDS is a BUYER of any number of SHARES in this company. Sellers will please state lowest price. Orders to inspect available any day in the week, and can be obtained by any Shareholder on application to the SECRETARY.

70 and 71, Bishopsgate-street Within, London, E.C., Nov. 22, 1867.

M ESSRS. FREDERIC GILL AND CO., STOCK AND SHAREDEALERS, ST. CLEMENT'S HOUSE CLEMENT'S LANE. LONDON, E.C., TRANSACT BUSINESS in all MINING STOCKS AND SHARES at closest market nett prices, either for cash or account.

M ESSRS. POWELL AND MOSS, STOCK AND SHAREDEALERS, 78, OLD BROAD STREET, LONDON, E.C., and Members of the Mining Exchange,
Bankers: Bank of England.

Investments and Sales of every description of Public Securities can be effected, either for immediate or deferred settlement, as may be agreed upon.

Loans granted, for one year or any shorter period, on Stocks and Shares having a market value.

DEPOSITS of all amounts received at 5 per cent.

The Finance Agency of Foreign Governments, Municipalities, Public Companies, and Money Agency Business generally undertaken.

RICHARD TAYLOR AND COMPANY.

No. 12, Clement's-lane, Lombard-street, London, E.C.

M. R. C. H. A. R. L. E. S. T. H. O. M. A. S.,
MINING AGENT, GENERAL SHAREDEALER, AND AUCTIONEER.
3, GREAT ST. HELEN'S, LONDON, E.C., deals in all kinds of securities, and
is always prepared to BUY or SELLs shares in—
Devon Great Consols. West Seton. Providence.
Great Wheal Vor. Wheal Basset. West Chiverton.
Herodsfot. East Lovell. West Chiverton.
Prince of Wales. East Lovell. Trelawny.
Mr. CHARLES THOMAS conducts private negociations and public sales of mining properties, being eminently fitted for both services through many years' practical experience among the mines of Cornwall and Devon, and by reason of an elaborate system of correspondence with the various mining districts.

Now ready, price One Shilling; post-free, fourteen stamps,

M INING FIELDS OF THE WEST:

PRINCIPAL MINES and MINING DISTRICTS of CORNWALL and DEVON.

PRINCIPAL MINES AFRACTICAL EXPOSITION OF THE

PRINCIPAL MINES AND MINING DISTRICTS OF CORNWALL AND DEVON.

At No. 3, Great St. Helen's, London, E.C.

MESSRS. LANE AND GIBBS, 2, ROYAL EXCHANGE, LONDON, E.C. (Members of the Mining Exchange), STOCK AND SHAKEDEALERS, transact business in all kinds of securities at closest net

SHAREDEALERS, Fransace vasculars of the prices for cash or account.

HOLDERS of shares in East Caradon, North Crofty, Great North Downs Marko Valley, Gawton Copper, Great Laxey, and West Chiverton Mines, will always find a ready market by applying to the above.

Daily price list on application.

Bankers: London and County Bank.

SHARP'S GUIDE TO SHAREHOLDERS. SHARP'S GUIDE TO CAPITALISTS. SHARP'S GUIDE TO TRUSTEES.

SHARP'S GUIDE TO INVESTORS SHAREHOLDERS, CAPITALISTS, TRUSTEES, INVESTORS.

requiring valuable and reliable information, and seeking safe, sound, and profitable investments, paying good dividends, should at all times consult SHARP'S GENERAL INVESTMENT CIRCULAR.

It is a "Safe Guide" for One and All. GRANVILLE SHARP, STOCK AND SHAREDEALER, No. 32, POULTRY, LONDON, E.C. [Established 1852.

H E N R Y M A N S E L L,
STOCK AND SHAREDEALER,
No. 44, THREADNREDLE STREET, LONDON, E.C.
Member of the Mining Exchange.
Bankers: London Joint-Stock Bank.

THOMAS, AND ILLY PUBLIC AUDITORS AND ACCOUNTANTS,
1, CIRCUS PLACE, FINSBURY CIRCUS.

LONDON, E.C. MATTHEW GREENE, STOCK AND SHAREDEALER,
ST. MICHAEL'S HOUSE, CORNHILL, LONDON, E.C.
Mr. MATTHEW GREENE recommends for immediate purchase Tamar Valley
Silver-Lead shares, now selling at 15s. per share, and certain for a rise. Parties
dealrous of investing in this most promising lead mine should apply at once;
specimens of the lode, and every particular can be had at Mr. MATTHEW
GREENE'S office.
Mr. MATTHEW GREENE confidently asserts that no such chance is at present
to be had-as the shares in this mine. The lode continuing to be of this value
will enable the mine to pay handsome dividends.

MR. THOMAS THOMPSON, MINING OFFICES, 34

M. R. JAMES HUME, STOCK AND SHAREDEALER, 74, OLD BROAD STREET, LONDON, has BUSINESS as BUYER or SELLER in North Treskerby, Prince of Wales, Clifford, Seton, West Chiverton Moor, North Downs, East Russell, East Cara Brea, East Caradon, Marke Valley, East Providence, Providence, Great Retallack, Carn Brea, Drake Walls.

TAMAR VALLEY.—SPECIAL BUSINESS in this highly-promising mine, and in other rising properties at low prices, from which Mr. Hume anticipates

reat results.

Mr, J. Hume's "Circular" for November now ready, price 6d., or 5s. annually,
Bankers: The London Joint-Stock Bank. CHONTALES GOLD COMPANY.—FULL PARTICULARS of the DIFFERENT CLASSES of SHARES can be obtained on application of the Mr. J. H. Murchison, No. 8, Austinfriars, E.C.

Bartlett And Charman, Stock and
SHAREDEALERS, 2, BUCKLERSBURY, LONDON, E.C.
Business transacted in every description of securities at close market prices, free of commission.

Business transacted in every description of securities at close market prices, free of commission.

LOVELL CONSOLS.—We strongly recommend this mine for an immediate advance in price. The report from the manager, which appears in this day's Journal, is highly satisfactory, and shares at the present price (12s, 6d, each) are, without a doubt, the cheapest investment in the market. Every information, with plans, &c., forwarded on application.

GREAT SOUTH CHIVERTON will soon speak for itself. Lead has been met in the 30 west in large quantities, and the agents are confident that they will soon open up valuable ore ground. An investment of £1000 in this property at the present low price (20s.) will double itself in six months.

Both these mines are not worked for market operations, and intending investors will do well to make eyery enquiry before purchasing shares. We recommend the Lovell Consols and Great South Chiverton on their merits only, without regard to market operations. We shall be glad to furnish any person with an order to inspect either miae, so that they may see for themselves.

BARTLETT AND CHAPMAN have several shares for sale that will pay from

BARTLETT AND CHAPMAN have several shares for sale that will pay from to 12 per cent, and others which are likely to advance 100 or 200 per cent, ithin a short time. Particulars forwarded to intending investors on appli-

BARTLETT AND CHAPMAN'S "Investment Circular" for this month con-ains valuable information respecting Rosewarne Consols, Great South Chiver-on, Lovell Consols, East Providence, and Lincoln Gold Company, several inte-esting commercial articles, and the epitome of 53 companies meetings. Post resting commercial articles, and the epitome of 55 companie free on application.

Bankers: London and Westminster Bank.

No. 2, Bucklersbury, London, E.C., November 22, 1867.

NOTICE TO COUNTRY INVESTORS.

NOTICE TO COUNTRY INVESTORS.

BARTLETT AND CHAPMAN beg to inform the readers of the MINING JOURNAL that, although they do not advertise shares for sale at stated prices, they are always in a rosition to negociate business for their clients and the public, either as BUYERS or SELLERS, at the closest market prices of the day, free of commission. The fluctuations in miding shares licing so great, unnecessary correspondence is avoided by not inserting a list of shares for sale at fixed prices.

MR G. D. SANDY, STOCK AND SHARE DEALER,
No. 48, THREADNEADLE STREET, LONDON, E.C., TRANSACTS
BUSINESS IN EVERY DESCRIPTION OF STOCK EXCHANGE SECURITIES,
MINING and FINANCIAL ENTERPRISES, at close market prices.

SPECIAL NOTICE—WHEAL AGAR: The lode in the 150 continues good, and is
fully 7 feet wide, criving at £5 per fathom. The old whim shaft is being sunk
as rapidly as possible, in expectation of outting the great lode of Kast Pool. The
prospects of this mine becoming specifity a profitably productive one are unparalleled in Comwall.

TAMAR VALIEY.—I have just seen the specimens of the lode sent to the office
referred to in the agents' reports in this day's Journal, which justifies mela
continuing to recommend the immediate purchase of the shares.

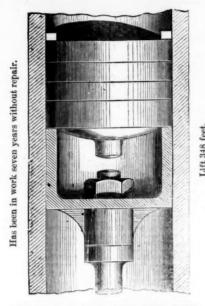
Money advanced to any amount on legitimate stocks and shares.

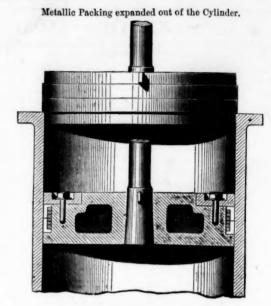
Beferences exchanged.

M. J. N. MAUGHAN, STOCK AND SHAREBROKER (Member of the Stock Exchange),
No. 2, COLLINGWOOD STREET, NEWCASTLE-ON-TYNE,
Transacts business in Rallways, Funds, and every description of Mines.
Bankers,—Messrs. Lambton and Co.

# MATHER AND PLATT

# MILLWRIGHTS, ENGINEERS, AND MACHINE MAKERS. SALFORD IRON WORKS, MANCHESTER.





COLD WATER PUMP FOR DEEP LIFTS.

AIR-PUMP BUCKET.

PISTON IN THE CYLINDER.

MATHER and PLATT beg to call the attention of ENGINEERS and USERS of STEAM POWER to their PATENT PISTONS, AIR PUMP BUCKETS, and COLD WATER PUMPS. The estimation in which these Pistons, &c., are held is shown by the fact that 4760 have been made, as well as by the following Testimonials from gentlemen whose large experience and extensive practice enable them to judge of their qualifications:-

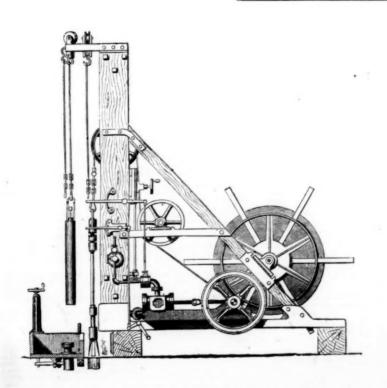
" Bridgewater Collieries, Walkden, Bolton-le-Moors, October 26, 1867. "GENTLEMEN, -During the last 19 years, commencing in 1848, I have put in upwards of 33 of your patent metallic pistons and pump-buckets, into 49 engines and 20 pumps, under my care at the Bridgewater Trustees' Collieries. I can bear testimony to the very efficient and economical working of the same, and feel confident that with ordinary care they will give general satisfaction, wherever brought into use, possessing, as they do, many practical advantages over other pistons and buckets, being simple, durable, and effective. I have one piston (No. 671) which has been working daily for more than 15 years, one (No. 1586) 10 years, and one (No. 2246) over 7 years, without cost of repairs or trouble of any kind, except occasional cleaning. The smooth and highly polished condition of the cylinders during this length of time convinces me that the action of the metallic packing is so equable and perfect as to render the piston steam-tight and self-adjusting, without producing any appreciable friction. I have had two of your patent metallic pump-buckets working daily for over seven years, one lifting 300 feet, and one 348 feet, and both are yet performing good duty. I am now putting in one of 10 inches diameter patent buckets, to work 10 strokes, of 8 feet 4 inches per minute, under a pressure of 12 atmospheres, and feel confident of success, thus showing the superiority over other buckets, more especially where long lifts and simplicity are required. I herewith hand you an order for a 53-inch diameter piston and rod complete, also air-pump bucket, 264 inches diameter, and rod complete. Hoping you will forward the same to these collieries as early as practicable, "I remain, Gentlemen, yours very respectfully,

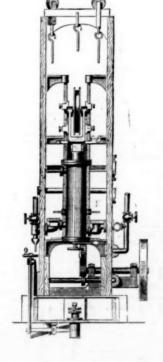
"Messrs, Mather and Platt, Salford Ironworks, Manchester."

"JESSE TIMMINS, Colliery Engineer.

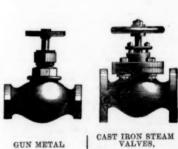
" Frampton Cottrell, near Bristol, October 31, 1867. "GENTLEMEN,-I have ordered direct on, included in specifications of engines which I have prepared, upwards of 100 of your pistons and buckets, between the years 1850 and 1867, and I feel convinced they are the best pistons that have come under my notice, and if any proof was wanting as to my opinion of them, it may be found in the fact of my ordering the last 70 inch piston from you "I remain, Gentlemen, yours truly, for our present works.

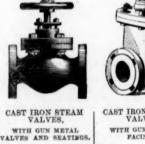
" Messrs. Mather and Platt, Salford Ironworks, Manchester."





M. and P. beg to call attention to their Revised List of Prices of VALVES, TAPS, &c. They also request the notice of Water Companies and Hydraulic Engineers to their IMPROVED SLUICE VALVES for Water. The slides have Gun-metal Facings, are of Wedge form, and when screwed down are tight





TAPS.

	VALVES	79			¥ 25.13
	WITH GUN M VALVES AND SI			15.	WITH GUI
d.	Bore. Inches.	E.	rio	d.	Bore. Inches.
0	2	1	.2	6	2
6	3	1	17	6	3
0	4	2	15	0	4
6	5	8	15	0	S
0	6	4	17	0	6
0	7	6	0	0	7
0	8	7	5	0	8
0	9	8	15	0	9
*	10	10	10	0	10
	11	12	5	0	11
	12	14	0	0	12

The attention of those interested in Metallic Mining is called

IMPROVED BUDDLE,

ORE WASHING MACHINE, Which they believe will be found of great benefit,

#### IMPROVED PATENT EARTH BORING MACHINES.

A considerable number of these Machines has been in most successful operation for some years in exploring for minerals and coal and the boring of Artesian wells, for supplying many towns, manufactories, &c., with water. Upwards of 50 bore-holes, from 6 in, to 24 in, diameter, representing in all 20,000 ft. of boring, have been sunk in various parts of the world, through rocks of every form and degree of hardness, from the New Red Sandstone to the Igneous formations, as well as Chalk and the London Clay.

The Machine is worked entirely by steam-power, requiring a small boiler, from 6 to 12 horse power, according to diameter of the bore-holes. The framing is made of wood, to render the Machine of easy transport.

The rate of boring is not appreciably decreased as the depth increases, as a flat rope is used in place of rods in the old system.

TERMS AND PARTICULARS CAN BE HAD ON APPLICATION.

#### Oniginal Connespondence.

SAFETY-CAGES, AND OVER-WINDING-No. III. HARPER'S SAFETY-CAGE.

cage in case of breakage of the rope, has been designed expressly for the purpose of being applied to cages working in wire-rope guides, and it is a very ingenious contrivance. The guide-rod, or rope, is encircled by means of a compresser. A clam and this apparatus is actuated by means of a spiral spring, the said spring being kept in check by means of chains attached to the winding-rope when the cage is working, and when the rope breaks the compressors are immediately brought into play by the release of those branch chains attached to the springs. Where iron rods or wire-ropes are in use there can be no doubt that this apparatus is fully calculated to proimmediately brought late play by the release of those branch chains attached to the springs. Where iron rods or wire-ropes are in use there can be no doubt that this apparatus is fully calculated to produce the desired effect; and there is this great advantage, as compared with the working of similar appliances suitable for wooden slides, that the compressors of Mr. Harper cannot injure the iron silides, that the compressors of Mr. Harper cannot injure the iron guides, as they present a smooth surface to the guides, while it is well known that a great objection to the safety apparatus for wooden slides is the injury often done to the latter by catching during the ordinary working. Calon's Safety-Cage is the latest invention, and perhaps the most ingenious of the kind ever brought out. It differs in some material particulars from all previous cages, one of the most important peculiarity it possesses is that the apparatus is not connected with the working rope, but when the cage falls gravitation alone brings the machinery into play, consequently it is not liable to be brought into operation at the top and bottom of the shaft, but brought into operation at the top and the period of this remark-aly when required. A more particular description of this remark-M, E, cage will be given next week. Newcastle-on-Tyne, Nov. 19.

#### FERNDALE COLLIERY EXPLOSION.

SINGLE-SHIFT SYSTEM CAUSE OF DOUBLE THE LOSS OF LIFE.

SIR,-The terrible catastrophe in the Rhondda Valley makes me SIR.—The terrible catastrophe in the knondda valley makes me anxious again to press on the notice of my fellow coalowners and the public in general the advantages of a system of working collieries by which the loss of life, on such occasions as that which has now spread dismay through the district, would be reduced to nearly half of what it now is. I allude to the system of "double shift," which is in universal use in the Northumberland and Durham coal fields, and which I have long been endeavouring to introduce into South Wales. In the northern system there are two relays, or shifts, of men, thing saven hours again. working seven hours each; the first shift leaving the face of the works when the second shift commences work in the places vacated. In South Wales, and I believe in all other districts in Great Britain, except Durham and Northumberland, there is only one shift, and except Durham and Northumberland, there is only one shift, and, consequently, all the colliers and workmen employed go down the pits in the morning, and remain until the day's work is finished at night. When, therefore, an explosion occurs in a colliery worked on the short hour, or double-shift principle, only about half the number of victims are exposed to destruction, as what there would be under the long hour, or single shift, system.

In every respect the double shift is equally advantageous to master

In every respect the double shift is equally advantageous to master and man. There is a much better supervision of the colliery, from the thorough organisation arising from a perfect division of labour, which makes every officer, and almost every workman, personally responsible for any neglect or carelessness. The coal getter is employed exclusively in cutting coal, and has nothing to do, as in the single shift, with examining the roof of the mine, setting timber, laying railway, &c., so that with ordinary exertion he can earn as much wages in seven hours with the double shift as he can get in eleven or twelve hours with the single shift. There is, however, no time for idling; he must keep vigorously atwork, for he knows that his comrade of the second shift will turn him out, and take possession of his place, at the end of the first shift. Now, as twice the quantity of coal is got out of such working place with the double as compared with the single shift during the twelve hours the pit is at work, only half the extent of pit room or, in other words, half the work, only half the extent of pit room or, in other words, half the number of working places is required in the former, as compared with the latter, system, and mark the great advantages that arise from such a state of things—

1.—The volume of gas exuding from the strata is probably little an one-half.

2.—The quantity of air required to dilute it is diminished in the same proportion; consequently, where the ventilating power in any colliery under the single shift is only barely equal to the requirements of the colliery with the double shift, the same power would be greatly in excess

in excess.

3.—There is only half the number and extent of air passages or windings to keep open—one of the most important considerations in a "fiery" colliery, with an inferior roof.

4.—Only half the number of air-doors: the leaving open of one for twenty minutes has been known to cause explosions, leading to the loss of hundreds of lives.

5.—Only half the quantity of temporary "brattice" the extensive

the loss of hundreds of lives.

5.—Only half the quantity of temporary "brattice," the extensive use of which "throttles" or impedes the free passage of the airthrough the whole district where they are employed.

6.—Half the number of "splits" or divisions of the volume of air required for ventilating the workings, and, therefore, only half the number of "regulators" to attend to and adjust.

7.—Half the number of horse-roads to keep, the cost of which forms an important item in collisions where the nevernal and road of the

an important item in collieries where the pavement and roof of the coal seam have a tendency to approach each other, or "pouch."

8.—The working face of the coal seam moves twice as fast, and, therefore, the roof of the mine is much easier and better kept up, and loss of life from "falls" of the strata, from which accidents constants coarse greatly desired.

stantly occur, greatly diminished.

The last is a most important consideration, on account of the great proportion which accidents arising from falls of the roof bear

to all other causes.

On the other hand, one would think that the advantage to the collier of spending half his day above ground, could hardly be overrated, in addition to the privilege of being half his time out of the reach of accidents, and earning the same amount of wages in the short as in the long hours of labour. I deeply regret to say that such is not the case. The prejudice of the collier in favour of the old single shift system is so great, that every effort on the part of my firm hitherto has proved unsuccessful. I sent down some of our most a start workmen to the North of England, who remained at those collieries until they had an opportunity of thoroughly learning every collieries until they had an opportunity of thoroughly learning every part of the double shift system. When they returned they wrote me a report, approving of it in all its details. They explained all particulars to their fellow-workmen, recommending them to adopt it, but without the least success. We have some 1000 or 1200 workmen employed in our collieries, and, out of that number, we could not induce 2000 make trial of the short-hour or double shift for a period of two 20th make trial of the short-hour, or double shift, for a period of two months, although on the condition that if not approved of by them at the end of that time it should be discontinued. It may be said that we ought to enforce the system. My reply is, no individual proprietor can do so, and I question whether any number of proprietors in any single locality have the power. In fact, nothing short of the whole of the iron and coalmasters of the district entering into a combination and arrangement to stoot their works in ease the double shift. bination and arrangement to stop their works in case the double shift

bination and arrangement to stop their works in case the double shift is not agreed to by the colliers, will ensure its introduction, and I despair of getting unanimity where there are such numbers to deal with. The question arises, what is to be done to remedy such a lamentable state of things? My answer is, let the Mines Inspection Bill be at once amended, and a clause added—that no colliery liable to give off explosive gases shall be worked except on the double shift, or northern system. This Bill has been amended to meet the loss of life arising from baring cally a single shift. But the loss of life arising from baring cally a single shift. iffe arising from having only a single shaft. But the loss of life arising from having only a single shift, by which the lives of all the workmen are jeopardised, in place of the double shift, in which only about

quarter of a million) increased numbers of workmen are obliged to be employed, and if employed on the one shift system, all are exposed to destruction, hence these increasing appalling calamities. I know collieries where there are 500 or 600 men employed at the same time, worked on the single shift system. The number of deaths arising from accidents in coal mines, as published in the report of the Inspector of Coal Mines for 1866, is 1844. In 1865 the number was only 984. There is, therefore, an increase of 500 deaths, or 50 per cent, and this awful loss of life must still go on increasing if the single shift system be allowed to remain in force.

I may state that I am managing partner of the firm of Nixon, Taylor, and Cory, who are owners of some of the largest collieries in Great Britain; a native of Newcastle-on-Tyne, and brought up as a viewer, or mining engineer, in that district. I have had twenty years' experience of coal mining in South Wales, and am perfectly acquainted with the nature of both the Welsh and Northern coal fields, and know practically the system of working pursued in each. In conclusion, I ask the powerful press of England, my brother coal owners—all parties interested in coal mines, and the humane and thoughtful of all classes, to join me in getting this single-shift system of North and South Wales, Yorkshire, the Midland, and other local districts—finally, a system which, I repeat, has caused double the loss of life from explosions of fire-damp—put an end to.

Cardiff, Nov. 20.

THE LATE EXPERIMENTS WITH SAFETY-LAMPS-No. I.

SIR,—The late experiments on safety-lamps, conducted at Hetton, Barnsley, and other places, have been, without doubt, the most elaborate and extensive made hitherto. Yet the result cannot be said to be entirely satisfactory, and that a wide-spread feeling of dissatisfaction prevails is evident, from the fact that the Lamp Committee connected with the Northern Institute of Mining Engineers has been re-appointed, and further investigations and experiments are to be carried out by them.

are to be carried out by them.

The cause of this dissatisfaction has not been the want of skill or The cause of this dissatisfaction has not been the want of skill or care on the part of the experimenters, but simply on account of the very intricate, and to a great extent uncertain, nature of such experiments, however carefully carried out. Still, if the results of the late experiments at Hetton, Barnsley, and other places had shown any approximation to uniformity in results, they would, probably, have been accepted as decisive, at any rate, for some time to come. But this is far from being the case.

have been accepted as decisive, at any rate, for some such this is far from being the case.

However, the assertions of those who at once rush into such statements as this, "that the Davy, Clanny, Mueseler, Stephenson, and other safety-lamps in universal use are, in the varying circumstances of the safety-lamps in universal use are, in the varying circumstances." other safety-lamps in universal use are, in the varying circumstances of a dangerous mine, quite unworthy of the name," are not at all warranted by the results of the said experiments. Nearly the whole question hinges on this part of the above quotation—"The varying circumstances of a dangerous mine"—as the experiments alluded to are conducted under conditions which do not obtain usually in mines, and it is a question fairly open to discussion whether these conditions ever occur in mines at all. If we take, as an illustration, the statement issued with Morison's patent safety-lamps, the following table gives the more important features there shown, and these particulars are quoted from the account of the Hetton Experiments, in the "Transactions of the Northern Mining Institute." We also append a copy of the Pelton Experiments: a copy of the Pelton Experiments :-

EXPERIMENTS AT HETTON. 

Lamp. 

It must be borne in mind that only a portion of those Hetton experiments are made with pit gas. In consequence of the difficulty of obtaining a sufficiently large quantity this gas was only used in the experiments with the Davy lamp. This is certainly a most unfortunate circumstance, and it goes far to reduce the value of the experiments, so far as the Stephenson lamp is concerned. However, taking the results shown in the table of the Hetton experiments, we have only one single trial with the Davy and Stephenson lamps the results shown in the table of the Hetton experiments, we have only one single shown in the table of the Hetton experiments, we have only one single trial with the Davy and Stephenson lamps, the speed of current being with the Davy 11½ feet per second, and with the Stephenson 27 feet per second. Now, it will hardly be contended that an explosive mixture moving at either of those rates will be often met with in mines. Taking first, 11½ ft. persecond, or 690 ft. per minute, if we suppose this current to be moving through a district airway, 30 ft. in area, perhaps about an average, the quantity of air would be 20,700 cubic feet per minute, and the quantity of gas required to keep them up to the firing point about 3000 cubic feet per minute; and, with respect to the Stephenson, we have 27 ft. per second, or 1620 ft. per minute; and, taking a similar area as before, the quantity of air would be 48,600 cubic ft. per minute, and the quantity of gas required 6000 cubic feet per minute.

Newcastle-on-Tyne, Nov. 15. — M. E.

#### IMPROVEMENTS IN SAFETY-LAMPS.

SIR,-With reference to your remarks in last week's Journal upon my improvements in safety-lamps, for which I am much obliged, you will, I am sure, kindly allow me to offer some explanation bearing upon the subject of their similarity to lamps already invented. I do not claim originality in every point of their construction, and I do not claim originality in every point of their construction, and, in fact, I have taken for the basis of my improvements the lamps already known as Upton and Roberts', and Cail and Glover's. But what I do claim is, that whereas both of these lamps in their original what I do claim is, that whereas both of these lamps in their original form exploded when subjected to a current of explosive mixture—in the case of the former lamp of 11 ft. per second, and in the latter of 8 ft. per second (the same as that at which the Davy, Musseler, Clanny, and other similar lamps explode)—my modifications of these lamps will stand any current, even up to 35 ft. per second, without any danger of passing the flame.

In the No. 1, the natented improvements consist of an exterior

without any danger of passing the flame.

In the No. 1, the patented improvements consist of an exterior protecting shield, a better and more simple arrangement, at the ingress of the air, one or more discs of wire gauze inserted in the hollow top, and a greater length of the cylinder of the lamp. In No. 2, of a chimney composed of two converging cone-shaped funnels of sheet-iron, brass, or other substance, and of an arrangement of washers on the wire gauze, or perforated metal discs at the top and bottom of the glass cylinders. In fact, in this lamp the only point bottom of the glass cylinders. In fact, in this lamp the only point in which it resembles Cail and Glover's is the two glass cylinders, with the arrangement of shield, and those cylinders are employed for a different purpose from that mentioned by those inventors—the interception of the direct action of an explosive atmosphere upon the lamp,—Pelton Colliery, Nov. 19. D. L. P. MORISON. mp.—Pelton Colliery, Nov. 19.

#### COMPRESSED AIR COAL-CUTTING MACHINES.

SIR,-In my letter of last week I intended to point out that the original patent for working coal by compressed air was the only substantial invention which had yet appeared of a practical nature, and that the proprietors of it were entitled to the sole merit of reducing half the number are exposed to such a calamity, is of equal, if not of much greater, importance.

As the collieries which are being sunk and opened are each year getting deeper and more extensive, greater outlay of capital is required to complete and put them in operation, and in order to get any return of profit on the large outlay (some costing upwards of a parent for cutting coal, to which I alluded, covers the ground, whether

the "slotting-machine" principle or the "pick," both being contained in one patent. There is no question that the trunk engine will work equally as well as the ordinary engine, so too will the link, oscillator, Cambrian, and every other workable engine, but none of the latter would supersede the original, and the patent cannot be evaded by substituting one for the other; this, however, is a matter between the patentees and those who use them.

Mr. James Grafton Jones (in the Journal of Nov. 9) states that he has made "very many machines which have stood the test." If this be so, he can surely tell the world where they are doing service. I cannot suppose that they have found their way to the scrap heap, after having stood the test. The fact I, however, suspect to be, that although his machine claimed to be for "turning corners" and "saving air," it neither does one nor the other, but that it is a questionable alteration, of little or no value. I will not trespass on your good nature by lengthening this letter. You have done excellent service to the cause, having for many years devoted much of your valuable space to coal cutting, which is now past the period of experiment, and must become a branch, and a most valuable one, and of great national interest; and, as a Leeds man, I feel proud that my native town has the honour of the invention.—Nov. 13. OBSERVER.

P.S.—It seems to me that if the Ferndale Colliery had been worked

P.S.—It seems to me that if the Ferndale Colliery had been worked y compressed air some of the lives which have been lost by the terrible accident might have been saved, as the stream of fresh air poured into the works must have been the means of sustaining many

#### RATING OF COLLIERIES.

SIR,-In the Glamorganshire district considerable dissatisfaction SIR,—In the Glamorganshire district considerable dissatisfaction is felt with the mode in which the collieries are rated, and when the subject is carefully considered there certainly appears much ground for the complaint made. As there is no fixed basis upon which collieries are assessed in any of the coal-producing Unions, it has simply been provided that the assessment committee in each may appoint a person to value the collieries rateable to their Unions, but they leave the amount at which collieries should be rated to the peculiar views of the persons employed. Thus, whilst some take the tons of coal produced, and estimate it at 6d., 8d., or 10d. per ton, according to their caprice, others prefer to make the assessment upon the basis of elaborate calculations concerning the position and peculiarities of the collieries to be assessed; and it is very truly said that those who adopt the latter course assume in the question a technical fiction, the collieries to be assessed; and it is very truly said that those who adopt the latter course assume in the question a technical fiction, known as a "hypothetical tenant," who is again assumed to pay without any effort at protesting, whatever sum it is considered desirable to extract from him. The law provides, it is said, that the "gross estimated rental" shall be what the colliery or "hereditament" shall let at from year to year. In the matter of a house, for instance, you are allowed a certain percentage from the amount of rent actually received for repairs, insurance, &c., which amounts are deducted from rent to obtain the gross estimated rental.

Now, it seems to me there ought to be no difficulty in the matter. The freeholder of the coal, of course, fixes the royalty to be paid to

The freeholder of the coal, of course, fixes the royalty to be paid to him for that coal at such a rate as shall return him the full value of him for that coal at such a rate as shall return him the full value of his freehold therein (together with such additional amount as shall compensate him for not receiving the purchase money in ready cash) by the time the coal is worked out. The freeholder knows that his grant to work the coal is not of the nature of a lease, because he undertakes to sell the coal itself, as completely as a Manchester manufacturer sells a bale of cloth, and has no expectation of the coal restriction. verting to him or his representatives at any future time, so that in making the assessment there is no reason that the freeholder has any pecuniary interest in the matter.

pecuniary interest in the matter.

This reduces the question to one between the lessee or worker of the coal and the assessment committee (which is the representation of the ratepayers as a body). Now, there can be no doubt that the lessee takes good care in the making his bargain that he will not pay more as royalty than would be the fair rental for the property, so that the annual royalty of a coal mine is really much the same as the annual rent of a house; and, in assessing the colliery, royalty alone should be taken as the basis. But in the case of a colliery there should be rowallowsness for reprise because it is as improper. there should be no allowance for repairs, because it is as improper to assume repairs of the article to be sold as it would be to allow the tradesman for probable repairs in the bale of cloth. On the the tradesman for probable repairs in the bale of cloth. On the other hand, however, the machinery and plant necessary for getting the coal should be exempted from taxation, as they are simply the equivalents of the furniture of the house; and the necessity for this exemption is the more apparent when it is considered that every 1000*l*, expended on machinery increases the ratable value of the colliery by increasing the amount paid as royalty, which is the rent. Again, the machinery forms no part of the freehold—it can be removed or sold without the consent of the freeholder, and should, therefore, be entirely at the disposal of the lessee. If a house be rated at 50*l*, per annum the introduction of half-a-dozen 50*l*, pianofortes would not justify an assessment committee in raising the ratable value to 350*l*.; and on the same principle the machinery introfortes would not justify an assessment committee in raising the ratable value to 3504.; and on the same principle the machinery introduced to suit the pleasure and convenience of the lessee should be equally exempt. Although no coal lessee or coal freeholder, and, therefore, not directly interested in a pecuniary sense, I think the question is one in which every inhabitant of a colliery district is indirectly concerned, as it not unfrequently happens that the collieries not only form the greater proportion of the rate-paying property, but also contribute the most to the creation of charges on the rates. Newport, Nov. 20.

#### THE COLLIERIES OF CAPE BRETON.

SIR,—After discussing briefly in your last week's Journal the merits of the International Coal Company, at Bridgeport, I resume my notice of Cape Breton's collieries in regular course, and will in that way take the Little Glace Bay Coal Company first. This company is presided over by a Mr. Archbold—Col. Archbold some people call him, but the rank is derived from the militia only. Let his position in the military service be what it may, he is a very good man of business, and his mine has, under his management, turned out one of the real prizes of the country. As a matter of course, the money to work it came from the United States, and the dividends accruing went thither. The coal of the Little Glace Coal Company is bituminous, as all coal found in Cape Breton is. The artificial harbour of the company is the best in the island, although I noticed the defect, as a matter of engineering and real importance, in the conception of it arising from the outer end of it being the widest, a fact which might have been apparent to the most ignorant in such matters. With a heavy sea on from without, a vessel coming into the harbour is more difficult to manage, as the narrowness of channel increases the force from behind is augmented, thus propelling the ship forward, and so greatly manage, as the narrowness of channel increases the force from behind is augmented, thus propelling the ship forward, and so greatly tending to endanger the safety of the craft. Notwithstanding this, there is now no artificial port in the country so secure. Dredging machines are kept pretty constantly at work, to keep the sand from accumulating and blocking up the harbour. In 1865 the profits of the company showed no less than 45 per cent. per annum. Such is the result of good management, and harmony among the shareholders.

Next comes the Block House Mine, at Cow Bay, another institutions are in the profits of the company showed and have a second the shareholders.

result of good management, and harmony among the snareholders.

Next comes the Block House Mine, at Cow Bay, another institution carried on with American funds and American enterprise. The coal of this company is in much request for gas in the cities of New York and Boston, and the spirit of enterprise shown by its manager, Mr. Robert Belloni, is worthy of all commendation; he is, indeed, one of the best men that ever visited Cape Breton, so far as doing good to the country while benefitting one's self is concerned. The shipments from the Block House Mine reach 100,000 tons a year. What the process costs the company I have no means of saying positively, but I know that their wharves have cost them a large sum of money, and that they are so situated that perfect security cannot be guaranteed at them. The freedom with which they expended their money, however, as well as the results they have attained, entitle them to the admiration of every one who thinks well of energy and pluck. I do not know what dividend Mr. Belloni may have paid his co-partners, but it ought to have been pretty liberal. This company pluck. I do not know what dividend Mr. Belloni may have paid his co-partners, but it ought to have been pretty liberal. This company have two screw colliers, the Pioneer and the Levant, in constantwork between New York and Cow Ray during the open season; the average length of passage between these ports is five days. The freights to sailing vessels average some \$4. United States currency—say, about 12s, sterling per ton, more or less, according to the price of gold.

After the Block House Company comes the Gowrie Mine, in the same

locality—the non-euphonius Cow Bay. The Hon. Thomas D. Archibald, of North Sydney, is the leading spirit in this concern. He is a senator for life in the new dominion of Canada, a most worthy gentleman—few like him, indeed. His co-partners are mixed Nova Scotians and Americans. That he has got works in operation as perfect as any to be found anywhere is only saying the bare truth. What has been expended in making the loading wharf and breakwater is a matter upon which I am not fully posted, but I am sure that the funds have been wisely and well laid out. Everything Mr. Archibald puts his hand to bears the stamp of the honest man, the judicious man, and the man of energy. The abolition of the Reciprocity Treaty with the United States has, however, affected the interests of the Gowrie Company, as it has those of every other company in the island, as well as those of the gas-makers and gas conprocity Treaty with the United States has, however, affected the interests of the Gowrie Company, as it has those of every other company in the island, as well as those of the gas-makers and gas consumers of New York, Boston. and other cities of the Eastern States of the Union. The shipments of the company will not exceed 100,000 tons this year to all ports, I should imagine. Nevertheless, the prospect of an early resumption of reciprocity or, at all events, a considerable amount of reduction in the tariff upon coal next spring, in the United States is bright enough to cheer up Mr. Archibald and his friends in the meanting. They certainly have a good article, and his friends in the meantime. They certainly have a good article, and

the United States is bright enough to cheer up Mr. Archibald and his friends in the meantime. They certainly have a good article, and abundance of it.

At Big Glace Bay there are two splendid collieries, not altogether in working condition; the old story of a bad harbour sticking them in the most effectual way for the nonce, but such energetic people as are engaged in the Caledonian and Clyde Mines are not to be beaten. Both are in the hands of Americans; but Mr. Poole, who is the manager in charge of the Caledonian Company, is a British subject, and he is making the most thorough preparations to be ready for the harbour now in course of construction. This harbour is being made, under contract for both companies, by Mr. A. M'Bean, C.E., who certainly is doing solid, enduring work, at a cost of about from 20,000? to 30,000?, I should say. My only doubt about the matter is with reference to the moving sand in the Bay, which each gale of wind must cause to block up the channel more or less. Then the distance the work has to; be carried out into the Bay makes me tremble that the effort may become abortive. I hope not most sincerely; and I am sure that if anything can be done to make it efficient and useful, the harbour of Big Glace Bay will be made so under the superintendence of my friends Messrs. Poole, M'Keen, and M'Bean. Granted that the harbour answers the expectations of its projectors, then I have no hesitation in saying that the coal shipped from Cape Breton will be greatly augmented by the exports from Big Glace Bay. Most certainly both Clyde and Caledonia men have immense quantities of admirable coal, but hitherto expense has been the great item, enough to try the stamina of the boldest and staunchest. However, fortuna favet fortibus, is the moto of such plucky people as are engaged in the Caledonia Mine, any way, and I am sure that if the spirited ma-

admirable coal, but hitnerto expense has been the great item, enough to try the stamina of the boldest and staunchest. However, fortuna favet fortibus, is the motto of such plucky people as are engaged in the Caledonia Mine, any way, and I am sure that if the spirited manager of the Clyde Company were allowed his way he would emulate the exertions of Mr. Poole.

There is a coal mine being worked at Big Pond, but with what result the writer knoweth not. Mira Bay boasts of one of the finest dormant properties in the whole island, but owing to some incomprehensible timidity upon the part of capitalists nothing more has been done than the development of its immense advantages—advantages peculiar to itself in the island, and concerning which I can authoritatively speak to any of your readers who really want to make money in heaps. I have been on the spot, have been in the pit, have burnt the coal, and, indeed, I know all about it.

At Little Bras d'Or there are two exceedingly valuable mines, one of which is in operation, and has advantages of its own hard to beat. I know few chances like the chance of getting hold of this property. It is for sale, for want of money to work it, being in the hands of an individual who is not a position to carry it on by himself. Port Hood and Mabou are also rich in coal. I shall write you about Nova Scotia next week.—Nov. 20.

CANADA GOLD AND OTHER MINES.

#### CANADA GOLD AND OTHER MINES.

Scotia next week.—Nov. 20.

CANADA GOLD AND OTHER MINES.

SIR.—Seeing no reports of Canada mines—lead, copper, silver, or gold—among the other world-wide information in your Journal, I am enlivened with a pleasing idea that an occasional letter (say, about monthly) from me, giving latest and truest attainable intelligence, may be useful in Britsin, and wherever else the Mining Journal is read. About the middle of this month (November) I shall reach the Madoc gold district, in the eastern section of Ontario province, and soon after may be at the Gilbert River and Chaudiere Mines, in Quebec province—that is, if snow does not cover the county too soon. I name this intended journey to add that you may expect from me a reliable description of the condition of the experiments which may be in progress when I am there. I am not personally interested in any mine, but, as a writer for newspapers and author of books, am favoured by the Government authorities with early copies of official information. A concise narrative of all that has been done in the Canada gold fields this year, or since they first excited expectation and adventure, and rewarded adventurers, might be interesting, but it cannot be done by this mail. This brief letter will be confined to a few items of latest developments.

The Barry Mine, at Madoc, is owned chiefly by shareholders residing in the town of Port Hope, north shore of Lake Ontario. They have sunk a shaft, and at the depth of 25 ft. have struck a quartz vein in which gold is visible to the naked eye, and richly visible. On assay (Oct. 31, 1867) this quartz yielded at the rate of \$500 per ton, or 1000. sterling. This statement rests on the authority of interested parties, and may be inexact. I shall endeavour to sift is truth from its possible chaif when I reach Madoc.

The Victoria Gold Mining Company consist chiefly of Toronto men. They, by their agents, are operating in Madoc, which lies 150 miles from east of Toronto. They are applying to the Dominion Parliament, which met for the first ti

Boston, United States. He purchased conditionally from Mr. Richardson, owner of the farm, tried to raise capital by forming a company in Boston, but failed to come to time. Meanwhile certain speculators of Chicago City, State of Illinois, returned Californians, heard of it, and tickled Mr. Richardson with larger handfuls of greenbacks than Mr. Carr could obtain within the specified time. Each party, including Richardson, tried to make the best of a contract not legally specified and signed. They got to litigation in the Canada Court of Chancery and the case was not decided until August of this year. In the season of uncertainty the construction of stamping-mills, and Chancery and the case was not decided until August of this year. In the season of uncertainty the construction of stamping-mills, and other requisite buildings and machinery, was postponed. And others who had acquired land for mining purposes in the district did not venture upon costly machinery until they saw how the Richardson Mine was developed, and thus it is that so much time—nearly a year—has been allowed to pass, while comparatively little real work has been accomplished. That uncertainty is ended. Energy and science, mechanical and chemical, are now penetrating the rocks in hundreds of places; building mill structures, erecting stamping-mills, and laboratories. Within the last few days some of the best specimens hitherto yielded by the Richardson Mine have been found. From one panful of sand, in a "pocket" of the rock which has recently been broached, 3 ozs. of gold were taken. Mr. Harding, the manager, is sinking another shaft near the Richardson, which at the depth of 15 feet is yielding gold as abundantly as the shaft No. 1.

Capital and experienced miners are wanted. The arrival of money

Capital and experienced miners are wanted. The arrival of money and men, strictly applicable to the development of the Madoc mineral treasures, would meet welcome and reward. I venture to write this, being well assured that the gold and silver ores abound in that territory, although I have not thought it prudent to quote in figures the marvellous amounts of treasure reported as found by some of the companies; some are, doubtless, exaggerated. I shall endeavour on the shot to get at the truth.

ALEXANDER SOMERVILLE. spot to get at the truth. ALEXANDER SOMERVILLE,
The "Whistler at the Plough." Hamilton, Canada, Nov. 7. -

#### MINES AND MINERALS OF NOVA SCOTIA.

SIR,—Under the above heading a letter from J. Tennant, jun., mineralogist, appears in the Journal of Oct. 19, stating that here experienced miners are able to earn from \$2 to \$3 a day. This is a mistake; a man may earn that amount, en gros, for the country (the aggregate produce of gold gives \$2 to \$3, in some districts, per man), but the daily wages average \$1.25, or 5s. sterling. I have the returns of some 40 companies before me, and, therefore, speak from authority. THE AUTHOR OF

"A GUIDE TO THE GOLD FIELDS OF NOVA SCOTIA.

Halifax (N.S.), Nov. 7.

FIRST DISCOVERY OF GOLD IN AUSTRALIA. FIRST DISCOVERY OF GOLD IN AUSTRALIA.

SIR,—I am quite sure that there exists much misapprehension concerning the discovery of gold in Australia; and as that discovery has exercised so important an influence, not only upon the colony but upon the empire, and as it is another proof of the marvellous effect which mines and mining produce upon commerce and civilisation, it will be interesting to your readers if I mention, for the first time, what really occurred. It is pretty well known now that the discovery of gold in California and in Colorado was a matter of accident; and such was also the case in Australia; and I believe, Mr. Editor, that no clear, simple, and consistent account of the discovery of gold in Australia has ever been given to the public. Gold was found in Australia has ever been given to the public. no clear, simple, and consistent account of the discovery of gold in Australia has ever been given to the public. Gold was found in Australia long before the fact was published in Europe. Nearly forty years have elapsed since the original discovery. This may seem very improbable to some of your readers, but the fact is beyond controversy. In 1829 gold was first found on what we may properly call the Australian continent. An Englsh gentleman residing at Sidney, who built the first store at the head of the navigation of Hunter's River, or, at all events, was one of a firm of merchants who did so who built the first store at the field of the invigation of finiter's River, or, at all events, was one of a firm of merchants who did so, was the occasion of this great discovery. These gentlemen founded the town of Morpeth, and supplied the up-country settlers with stores, taking in exchange their produce. Mr. Barwise was a prominent taking in exchange their produce. Mr. Barwise was a prominent member of the company, and being a man of geological and mineralogical science, he busied himself in developing the resources of the country, in connection with a few other scientific gentlemen—such as Mr. Rumber, the astronomor of Paramatta; Mr. Cunningham the botanist; Mr. Hallen, Government engineer; Mr. Thompson of the Surveyor-General's office; Mr. Earl the artist, from whose panoramic pictures the public were supplied for many years by the copies made from his drawings, which were exhibited by Messrs. Burford, of Leicester-square. There were some other men of equal standing with whose parts I am not equally acquainted, but they all worked together for the sake of their adopted country, and Australia will for ever be indebted to these pioneers of science for her prosperity and power. The conversaciones held in George-street, Sidney, by these able and learned men, have had an influence not only upon the progress of that city, but also upon that of the vast country on which and power. The conversaziones held in George-street, Sidney, by these able and learned men' have had an influence not only upon the progress of that city, but also upon that of the vast country on which it is but a speck. At one of these meetings a gentleman of great ability, but of retiring manners, Dr. Little, was introduced by Mr. Cunningham. Dr. Little had previously been on an exploring tour for the purpose of informing himself, as far as possible, of the geological character of the country. He had made a journey into the Blue Mountain range, in a north-westerly direction from Paterson Plains, and, amongst other discoveries, found evidence of volcanic activity in that region of no very remote period. On Dr. Little's return to Sidney he gave the public the benefit of his labours. He obtained the fate of all other explorers and discoverers—he was attacked in the newspapers. The Sidney Gazette opened a heavy fire upon the learned explorer. His science was stupidly questioned, and the facts which he revealed, and which were true, were audaciously denied. Soon after, however, another gentleman had the opportunity and the happiness of vindicating the learned explorer. Mr. Barwise, of Sydney, had gone on a journey to Wallis's plains, and he intended, upon his return, to travel in a north-westerly direction, in quest of water, so necessary to Australian pastures. At that time there was severe drought, it being the third dry season which the shepherds had experienced. As the place described by Dr. Little could not be far off the track which Mr. Barwise pursued, he determined to explore it. Soon after the opening of 1829 he fitted out a small expedition with drays to carry instruments, tools, stores, tents, and such other things as were requisite for a journey into the wilderness. The expedition started, taking a direct course towards Dr. Little's volcanic mountain, which in due time was found and examined; and specimens of cinder, pumice, and scoria, enough to vindicate the Doctor's verecity, were collected and pac ironstone, and carbonate of copper, were met with, of great apparent richness. On the fifth morning after leaving Dr. Little's mountain, while the men were striking tents, the chief teamster, James Ryan, requested Mr. Barwise to go with him and examine some yellow metal which he had found while looking for the oxen in the morning. He had marked all the trees in his route from the spot to the little encampment. The track of the "blazed" or marked trees was followed until the great where the simple desaying for the contraction. was followed until the spot where the singular deposit of yellow metal had been found was arrived at. The place was a water-worn, basin-like hollow in a rock, which contained a quantity of yellow metal, glistening in the sun. glistening in the sun. Ryan had previously taken a little of it in his hand, but returned it to its former position. "What is it, Master?" asked the teamster. "I do not know," was the reply; but in any event we will take some of it with us." Not having colloquial language of the woods is independent of grammar, especially of Spanish). A Toronto association, named the Madoc Gold Mining Company, have a shaft in this vicinity, and have just made Mining Company, have a shaft in this vicinity, and have just made a fortunate strike. Other companies working in the same locality are—the Royal Canadian, Excelsior, Brantford, Goderich, and Wilcox; all their shafts looking well. The Royal Canadian is 25 feet deep, and has struck a vein of quarts 4 feet wide; a few days ago rock was brought up from this vein which showed gold largely to the naked eye. A Belleville company of shareholders (Belleville is the county town of Hastings, in which these mines are located, and the names of companies are in most cases given from the towns where the adventurers first associated) are sinking near the Richardson Mine, the earliest opened and most successfully tested, and are showing specimens which seem to indicate a mine of real wealth.

Near the Belleville is the shaft of a Montreal company, called the Anglo-Saxon. Mr. White, their manager, reports a successful strike.

Near the Belleville is the shaft of a Montreal company, called the samples of ironstoné, copper ore, &c., reserving the gold, and in which the market prices of metals the sum of a fair charge is paid annually. This other was also indicate a mine of real wealth.

Near the Belleville is the shaft of a Montreal company, called the samples of ironstoné, copper ore, &c., reserving the gold of the last revelation of the events of his journey. After relating the deventure of Ryan, the teamster, he poured out the gold, and in vited the company to inform him what they thought it was.

In which the first of the Madoc gold was discovered, just 12 months ago, when a prospecting individual was looking for copper, is true to the expectations founded on it. That prospector was Mr. Carr, of the expectations founded on it. That prospector was Mr. Carr, of the expectations founded on it. That prospector was Mr. Carr, of the expectati

deed, condescended to assure the company that it was not mica, nor copper, but that it certainly was not gold. Indeed, it was unanimously agreed by this scientific little circle that Bedlam, or the Paramatta Lunatic Asylum, would be a very suitable place for any one that asserted the metal was gold. After much discussion it was placed on one side, and soon diminished, as every visitor had a piece of it for the gratification of his curiosity, or its more minute examination. The fact was that a wide-spread desire existed among the sheep farmers to put down any reports of gold discoveries. They declared that persons raising such reports ought to be put in confinement, as if the shepherds heard that gold was to be found in the quountains they would all run away in search of it, and every sheep farmer in the country would be ruined.

In 1852 Mr. Hargraves obtained from Government the reward of 20,000% as the original discoverer of gold in Australia. At that time the true discoverers were in California. Long years before 1852 Ryan, the teamster, found the first gold, and Mr. Barwise introduced it to the notice of scientific men in Sydney. The Government never pays twice, and it is not likely that Ryan or his master will receive any official acknowledgment of their service, but it is proper to state the facts, and the public will peruse them with interest. CIVIS.

#### THE SLATE TRADE OF NORTH WALES.

THE SLATE TRADE OF NORTH WALES.

SIR,—I have read with great satisfaction the many letters published in your valuable Journal, on the Slate Trade of North Wales, written by Mr. Kellow, of Tremadoc. Although he is almost an entire stranger to me, I perceive that he has an extensive knowledge of quarrying, &c., and I fully endorse the sentiments which he has oclearly expressed. I have learnt, during an experience of more than 40 years, both as quarryman and manager, that any other than a practical man, with a good share of brains, could not have so ably treated the several points referred to in his letters; and it is to be hoped that quarry owners and others will profit by the information and counsel which they contain. Had we a few more such men, who could find time to give this subject the attention that it deserves, and would come forward fearlessly to introduce and ventilate quarry enterprise and its management (practically), through the medium of the Mining Journal, cunning impostors and scheming pretenders would soon find it more difficult to carry on their unholy work, and the hidden wealth of the Principality would be operated on in a maner that would make it permanently lucrative.

R. WILLIAMS, Brynyeglwys Quarries, Nov. 19.

#### DRILLING-MACHINES.

SIR,—Fully endorsing your remarks in last week's Journal, as every, one at all interested in mining must do, that as a proper number of well-trained, experienced workmen cannot be obtained, we should seek about for means to remedy this by supplementing the good miners who are left to us with machines which shall relieve them from their heaviest toils, I am induced to ask what has become of General Haupt's drill? It appears to me that if there really be what is represented in this machine, a more opportune time can never occur for its development. In a letter in the Journal a few weeks since his agents promised that it should shortly be tested underground. May I ask of those gentlemen if this consummation, devents to the

his agents promised that it should shortly be tested underground. May I ask of those gentlemen if this consummation, devoutly to be wished, is likely to be accomplished, and when?

Again, Sir, in last week's Journal a description is given of a Tunnelling Machine invented by Mr. Brunton. May I suggest that, in the cause of mining and miners, how desirable it would be were Mr. Brunton to communicate a full description of this machine to the Journal, as to its capabilities, room required, whether driven by steam or air, if suitable for shafts equally with tunnelling, and, finally, its cost? I think this subject cannot be too thoroughly and, at the same time, too expeditiously ventilated, for "while the grass grows"—you know the context; and I may also add that if, instead of paragraphs finding their way into local newspapers, all that appertains to this important subject were contributed by the promoters direct to the Mining Journal how much more publicity in the right channel would be secured, and how much more readily it would lead to the ultimate benefit not only of the inventor, but of the whole mining world.

BORER.

#### ASCENDING DEEP MINES-IMPROVEMENT.

SIR,—It appears as if the interest of the labouring miner is almost lost sight of, so far as making his labour and fatigue as easy and agreeable as possible; but there is one thing I am desirous of bringing before the mining public, if you will afford me space in your relachly Laureal.

agreeable as possible, but the most fatiguing and most ing before the mining public, if you will afford me space in your valuable Journal.

It is allowed by all-parties that the most fatiguing and most injurious part of the labouring miners' duties is the ascending from deep mines after having performed their labour, where they exhaust a great portion of their strength, which renders them the less able to meet the heavy task of climbing; and, as the generality of Cornish mines are not in a position to creet suitable machinery for that purpose, it becomes the duty of everyone who can invent anything in the way of an auxiliary to do his best in carrying out any plan or invention to ease the heavy task that has been so injurious to our worthy but neglected miners.

I now wish to call the attention of managers and agents of mines, and of all whom it may concern, to what I call an improvement which might be made in footways or ladder-roads, by reducing the length of the step from 16 or 12 in. to 7 or 8 in., which I think would be a great relief, insame has it would cause the ascent to be a little slower, and not so much strain to the muscles. This is easily performed; but if the steps were 10 or 12 in. above each other it would be found to be a very laborious performance. The same will apply it it to the miner when climbing mine ladders. A man can carry a heavy load over a flight of stairs where the step is 6 or 7 in.; but, if the same height wasto gained by steps of 9 or 10 in., it would be found to be impossible to ascend with the same load. And, if easier to ascend with a load, does it not stand to reason that it is easier to ascend if not laden? It may appear difficult at first to get out of the long-accustomed step but that would soon be agreeably mastered, and I think highly approved of. It is so inexpensive for trial that I think no one can complain of the cost. It may at first be tried in a wince, or in any place on a small scale for the first trial, and then it must be proved by uprejudiced minds. Let it be

#### MINING INTERESTS IN DEVON AND CORNWALL

SIR,-My last communication has had a twofold effect-first, of eliciting encouraging replies, which go to show that the interest in mines is not dead but sleeping; and, secondly, that elsewhere, as in Devon and Cornwall, additional information is desired. The desired information is of the features of eligible new mining ground, of locality, and of the certainty that any such new mining ground information is of the features of eligible new mining ground, of locality, and of the certainty that any such new mining ground, of locality, and of the certainty that any such new mining ground, of mains unappropriated and undeveloped in Devon and Conwall. The ecouragement is in the form of a relteration of the statements that the depression in mining property and products must shortly cease; that mining property is stiffully selected and worked, forms a safe and highly remomerative investment for capital; and that under a spirited and inexpensive working of new ground the revision of the market price of copper, tin, and lead. That this last anticipation may not be hastify questioned, it should be remarked that, with varying conditions of production, the same market price of metals may yield three classes of returns—an unremmenerative and ruinous class, as in those mines which were opened with much needless outlay; and, last, a class that literally may coin money, as in the new mining ground workings recommended by me on hill sides where practicable, which would admit of draining without pumps or engines. Mr. Ricardo, it will be remembered, pointed out something of this sort about whesi-growing lands—the best soils not only producing the heaviest crops, but the process of course, wheat lands and mines are radically unlike, but, as the French, economist, Bastlat, would have said, profit is the relation that effort bears to result. Given a certain price for copper, tin, or lead, the return, or the profit, will be in proportion to the working charge. A mine without water, or one with no considerable accumulation of water, to be kept down by pumping resembles a ship in ballast trim, or business premises held on lease at an easy tental; while a mine with much water is a Regent-

here are the lodes of valuable mines to be intersected, to the east or the west; there are the surface formations, inviting proof by dry level adits. And colleges are the surface formations, inviting proof by dry level adits. And collectively from these signs there is the logical conclusion that all the wealth include the proof of the proof of the past is not exhaustly the side of what remains. Nay more, the mining of the past is not exhaustly the side of what remains. Nay more, the mining of the past is not exhaustly the side of what remains. Nay more, the mining of the past is not exhaustly the side of the case of the ca

#### TICKETING EXPENSES.

SIR.—It is quite clear that no alteration, save that embodied in Mr. F. Pryor's resolution, will have the result desired by the miner—the thorough abolition of all indirect taxes on the mines. The samplers still receive their weighing and sampling fees; and a great number who, with other intruders, have no kind of sampling fees; and a great number who, with other intruders, have no kind of supplyers. There is one alternative left before calling upon Mr. Pryor to renew players. There is one alternative left before calling upon Mr. Pryor to renew the content of the conten

#### DYFNGWM MINES COMPANY.

BYFNGWM MINES COMPANY.

R.—Your columns have teemed so much with the unfortunate management is concern that, perhaps, it will be a treat now to your readers to follow the got the death. You will remember that a few months ago the indignation low independent shareholders was aroused at a meeting, and that a composition of the composition of the report of this new body, mance committee called a special meeting of shareholders to consider the ricey of registering the company under the Companies Act, 1882; and simultance committee called a special meeting of shareholders to consider the ricey of registering the company under the Companies Act, 1882; and simultancy to pass resolutions to wind the company up voluntarily; and to apply to pass resolutions to wind the company up voluntarily; and to apply to pass resolutions to wind the company up voluntarily; and to apply to pass resolutions to wind the company as the attempt thus ineffectually to burke and smother the expectant report, because the finance committee afficiently rebuked for this breach of faith at the time. However, Mr. ge Hadley, the purser of the company, was appointed liquidator under the ligacy, which was carried, in spite of protests, to be entirely voluntary, by the first act of this official was to invite tenders for the mines and maisting the state of the state of the Rhoswyddol sale, under the same manage, was yet fresh in memory, the intervention of shareholders put a stop to proceeding. Act the se-ond was the attempt, last Tuesday, to sell the mines materials by anction, and yet reserving a right to one bidding, to put in a reat a price which upset the whole thing. This reserve was very properly for to be in the auctioneer's hands before the biddings commenced. To the affair most attractive, Mr. Buckland, the auctioneer, had two mines to Monti Gabriel, held for the unexpired term of 18 years, at 1-18th royalty, isle, too, by allowances for cost of conveyance of ore to port, and of ship of its ores; and, then, Dyfngwm, held at 20s, per ton roya

good: See the discussion of the course of the Court, when let us ask his honour, the Manuange to the Court of the Court, when let us ask his honour, the Manuange to support the Relation to the Pottheoming to support the Pottheoming to support the Court, which is the Court of the Court of the Court, which is the Court of the Court, at least, under the supervision of the Court. Pienty of evill the forthcoming to support the petition, and funds too.

M. Nov. 21.

A VIGILANT SHARREHOLDER.

### WEST CARADON MINING COMPANY.

WEST CARADON MINING COMPANY.

—I perceive among the Correspondence in last week's Journal a letter ting to have been written from an old shareholder in this mine; in any owhich I would remark, had your correspondent been acquainted with raden district he would be not shown more discretion in keeping his retention of the profits of the shareholders on the shallow levels above the 36, and from Menadue and Gilpin's lodes, I grant that these levels have given all the profits to the shareholders on the shallow levels above the 36, and from Menadue and Gilpin's lodes, I grant that these levels have been very productive, but he must also hat they are extended to the extremity of the sett. Does he wish the of those levels extended to the Moon in search of mineral? If so, he will make fly hopelessly disappointed in their results. And has he forgotten the grees of ore on Vivian's, Jope's, and several other lodes, which gave very roffits below the 36; also that the principal part of the returns for some last, if I read correctly the agents' reports, has been from the bottom or vels of this mine. Captain Johns, at the meeting, referred to their pro-as regards the deep levels. In reading Mr. Watson's remarks the writer ethat in South Caradon they have a course of ore within a few fathoms boundary of this mine, and as well inclining or dippling weet, which will ylengthen the course of ore in depth at this mine, but speaks volumes spain becoming a profitable and lasting mine, and bears out Captain statement. The western ground has hitherto been undeveloped; and, vigorous prosecution, I think the agents will agree with me that they reason why they should not here have profitable courses of ore, both and in make profitable and lasting mines I cannot agree with your correspondent of the profits and the surface. As regards the management, a means should teach him better.

A LOVER OF FAIR PLAY.

ANCHOLY ACCIDENT.—A most distressing loss of life occurred

MELANCHOLY ACCIDENT.—A most distressing loss of life occurred the Deep Level Mino, near Halkyn, on Tuesday last. Two miners were working in a rise over the back of the deep level, or adit, and had got up in the vein, which was filled with stiff clay and sand, about 7 or 8 yards. Two miners were wie at the same time working in the end of the adit level, which was advanced for yards beyond the rise. The whole four men, as far as can be ascertained, for drowned almost simultaneously. It appears that the men in the rise broke tapped suddenly into a cavity, from which a volume of water poured out, tabling down the men, and a large quantity of stiff clay, into the level below. This clay filled the level for nearly 20 yards in length, or formed a dam, as it was the water, closing in the poor men behind it. It is understood that most the men have left widows and several children behind them, and a substitution for their relief has been opened amongst the shareholders.

WEST DRAKE WALLS MINE (Calstock).—On Tuesday, the 40-in. Clinder pumping engine, just erected at this very promising young mine, was plut work by Mr. M. Loam, the engineer, in presence of many large shareholders and friends, the engine taking its first stroke very easily and gracefully; and on the water appearing at the head of the lift the air rang with the deafening cheers of the miners, who congregated in great numbers to witness such a gratifying east in tease elepressed days of mining. The engine, which is almost new, is deficient power to develope the mine to a great depth, and the engine-house is beautifule. The built, and large enough to take an engine of twice the war. Toose who have seen the engine and house have "One and All," probanced that the one are relied to the company. After witnessing the starting, the starting, the starting the engine of the probanced that the one of the probanced that the company. After witnessing the starting, the starting that the probanced that the company is those present were Messrs. R. Clogg (pursillated dinner was provided. Amongst those present were Messrs. R. Clogg (pursillated dinner was provided. Amongst those present were Messrs. R. Clogg (pursillated dinner Coath. Capts. Gregory (manager), Hockin, Parsons, J. Gifford (S. G. Basac, A. C. Glubb, H. Caunter, M. Loam, Hambly, T. Nicholis, J. M. Sille, Ware, Coath. Capts. Gregory (manager), Hockin, Parsons, J. Gifford (B. Rowe, G. Rowe, Jun., and others. After dinner Mr. Loam (president) profined in Success to West Drake Walls. The directors of Success to West Drake Walls. The directors of the proper silverality provided a dinner for all the mechanics engaged on the mine, the all quietly separated at an early hour, evidently well pleased with their emboyer's liberality.

ARE QUARRIES MINES?—Vice-Chancellor Malins had before him puted will case, in which a codicil to Lord William Powiett's (the Duke of land) will had to be interpreted. The codicil said: "I bequeath all shares, tures, or securities in railways and mines of which I shall die possessed to 1fc, Lady William Powiett absolutely, in addition to any other bequests this bequest included shares in the Welsh Slate Company. It was contended on the part of the plaintiff that the quarry had been worked for the last eight years underground, and had then become a mine; while, on the other hand, it was shown that the property was rated as a quarry up to 1865; whereas, if it had been considered a mine, it would have been exempt from rating. The Vice-Chancellor said that the only thing to distinguish a mine from a quarry was the mode of working. This one was worked as a mine, and, therefore, it would go to the plaintiff.

BWLCH-Y-PEYM LEAD MINING COMPANY.—The Master of the Rolls Wednesday gave judgment in this case, which was an application to above company, mainly on the ground, among other allegations, the idean given to some parties connected with the company to lend it their name to the coucern, but in other respects without any tang had been given to some parties connected with the company to lend the weight of their name to the concern, but in other respects without any tangible payment on the shares. The Court, in refusing to grant the winding-up order asked for, said that some of the allegations put forth might be sufficient, if established, to relieve a part of the now dissentient shareholders from their shares, if they applied in time, but no case had been made out on the evidence to induce the Court to wind-up such a company as the present, more especially where the great body of the proprietors of its shares wished to go on.

#### MINING NOTABILIA.

#### [EXTRACTS FROM OUR CORRESPONDENCE.]

GOGINAN AND PLYNLIMMON DISTRICT.—Much has of late been said about the dividend mines in this district, and rightly so, but I fancy something should be told regarding the young ones as well. There are several of these being opened on the richest lodes in this mining field, some of which I have examined, and found most of the veins to be well-defined, of good character, with beautiful gossan, lead, and blende, which must be considered encouraging so near the surface, and one I think more particularly deserving attention. It is situated about two miles north of Ponterwyd, Aberystwith, designated Dinas. An adit level is driving on the course of the lode from the bank of the River Rheidol, and judging from the splendid gossan, lead, and blende brought to surface, I believe it will be a good mine. It is being worked by a local party, and I hear will soon be offered to the public. This is quite a new piece of mineral ground, with three lodes discovered.

OKEL TOR.—This mine has very much improved of late, not only in consequence of the north lode in the western part being communicated with

OKEL TOR.—This mine has very much improved of late, not only in consequence of the north lode in the western part being communicated with the south lode in the eastern part, thereby utilising that remarkable lode, but by the discovery of other lodes, which together will not only tend to increase the samplings, but also to raise the average quality of the ore.

GREAT SOUTH CHIVERTON is rapidly improving, and the samples of ore sent to the office, 2, Bucklersbury, are decidedly superior to anything seen before in the mine. It appears to be only a question of time with this property. The shaft is now down about 60 fathoms, and from appearances there is little doubt but a good lode will be found in a little more sinking. A second West Chiverton is likely to be found here.

the snart is now down about to fathoms, and from appearances there is little doubt but a good lode will be found in a little more sinking. A second West Chiverton is likely to be found here.

LOVELL CONSOLS is rapidly improving, and the agents anticipate meeting with a very productive lode in a few weeks. There is no doubt but that this property will soon pay handsome dividends. There is no reason why this mine should not equal the Old Wheal Lovell, or Trumpet Consols, as all the lodes from which these two mines returned their profits pass through the sett.

OLD WESTMINSTER.—The improvements here within the last three or four days have been very considerable. The sump going down from the 65 to the 22 maintains its value, with marked indications of improvement; and a shaft driven out from it east is getting into good and profitable crey ground. The 92 east improves, and the eastern shaft (Carpenter's) having drained itself, is going down in very favourable ground. The prospects of the mine have been wonderfully improved in the short space of three months.

ROSE AND CHIVERTON.—Intelligence of a most import character has been received this week concerning this property. It appears that No. 2 lode, referred to very pointedly at the meeting of shareheiders, has much improved—sufficiently so, it seems, to, justify a telegram being sent with the announcement that it is now looking "splendid." No further comment is necessary.

WEST MARIA AND FORTESCUE MINES are opening out splendidly on the Capel Tor and West Maria lodes; the winzes are now being summ from the 50 to the 60 fathom levels, which, when completed, will enable extra stopes to be let, this will greatly increase the present returns. The coming sampling will exceed 200 tons, and from the great reserves the same will be gradually increased, and there can be no question the adventurers will be rewarded by a good paying mine.

Frank MILLS sampled 100 tons of silver-lead ore on Nov. 14. The

paying mine.

Frank Mills sampled 100 tons of silver-lead ore on Nov. 14. The agents' report, which was received too late for insertion, records no alteration. CRENVER AND WHEAL ABRAHAM MINE, materials, and machinery

were bought in the other day, when offered for sale by auction, have been ad at this week to Messrs. Willyams, Willyams, and Co., bankers, Truro,

for 83001.

New Chiverton Consols.—A company with this title has just been formed to work a valuable piece of ground in the vicinity of West Chiverton. It is stated that a sampling of ore will shortly be made.

MID-WALES LEAD.—Information has been received that the discovery referred to some weeks since continues to hold good, and the lodes are producing one of a satisfactory character.

COPPER AND BRASS,-The total weight of the copper and brass ex-COPPER AND BRASS.—The total weight of the copper and brass exported from the United Kingdom in September was 72,224 cwts., as compared with 59,070 cwts. in September, 1866, and 61,863 cwts. in September, 1865. In this total copper figured for 54,269 cwts., as compared with 44,871 cwts. in September, 1866, and 41,532 cwts. in the month of September, 1865. The total exports of copper and brass to September 30 of this year amounted to 556,938 cwts., as compared with 472,560 cwts. in the first nine months of 1866, and 512,446 cwts. in the first nine months of 1865. In these totals copper figured for 392,490 cwts., as compared with 328,497 cwts. to the corresponding date of 1865, and 382,563 cwts. to the corresponding date of 1865. British India appears to be a large consumer of our copper. responding date of 1866, and 382,563 cwts. to the corresponding date of 1865. British India appears to be a large consumer of our copper, having taken 206,336 cwts. to Sept. 30 this year, as compared with 143,936 cwts. to the corresponding date of 1866, and 143,393 cwts. to the corresponding date of 1865. The value of the copper and brass exported in the first nine months of this year was 2,296,271*l.*, as compared with 2,203,021*l*. to the corresponding date of 1866, and 2,388,989*l*, to the corresponding date of 1865. In these totals copper figured for 1,583,132*l.*, 1,467,921*l.*, and 1,752,653*l.* respectively. British India appears likely to pay the mother country something over 1,000,000*l.* for copper this year. for copper this year.

THE LINCOLN GOLD MINES—CALICO ORES.—We extract the following from the Alta-California of Oct. 10, 1867:—

THE LINCOLN GOLD MINES—CALICO ORES.—We extract the following from the Alta-California of Oct. 10, 1867:—

"We had an idea that the curious calleo ores worked at the Lincoln Mines and at Quali Hill are something new under the sun, an addition to the many singularities which are nowhere found but in California. We find that there is just such a formation, and just such calleo ores, in South America. This may be important to us, as leading to some better estimations of the practical value of what we have. The Calleo Ore Mines of Chill are in every respect like those we recently described as now being worked in California. They have been worked by the family of Don Manuel Portally for a century. They are located 78 miles south of Santiago, Chill, and 30 miles east of Roucnaga, province of Santiago, western slope of the Covillleras. The mine is called Leona, or the Lincoln Mines, and, as at Quali Hill, the vein matter at the Leona Mine is several hundred feet wide. It has been exhausted above the water-level, and the present workings are to a great depth below; there is much less water than in any other mines of equal depth; the principal production is silver. Silver is also a portion of the product at Quali Hill and at Lincoln. At the lowest depths worked in the Chill Mine the ore has not changed its character; the sulphurets below are decomposed as they are above the water-level. Should this be the case in our California calico ore belt it will be a great addition to its value; the Leona ores, like our owe, are of low grade, but they mine cheaply. The yield in their rude arrastres has averaged over \$8 per ton; the quality is without limit, and the mine has proved a source of permanent wealth. The deposit at the Leona Mine has an extent of two miles. We are notadvised respecting other deposits on the extension of that mineral belt, but in Calverns and Placer counties the same calico ores have been found at several points, and whilst many prove barrent, there is every encouragement for prespectors to search along th

DRAKE WALLS MINE (Calstock).—On Tuesday, the 40-in.

Impling engine, just erected at this very promising young mine, was by Mr. M. Loam, the engineer, in presence of many large shareholders, the engine taking its first stroke very easily and gracefully; and on ppearing at the head of the lift the air rang with the deafening cheers who congregated in great numbers to witness such a gracifying cover to develope the mine to a great depth, and the engine-house is power to develope the mine to a great depth, and the engine-house is designed, well built, and large enough to take an engine of twice the see who have seen the engine and house have "One and All," promit to be a credit to the company. After witnessing the starting, the ladjourned to the Drake Walls Mine account-house, where a good subner was provided. Amongst those present were Messrs. R. Clogg pursase, A. C. Glibb, H. Caunter, M. Loam, Hambly, T. Nicholis, J. M. Percous and the was provided. Amongst those present were Messrs. R. Clogg pursase, A. C. Glibb, H. Caunter, M. Loam, Hambly, T. Nicholis, J. M. Percous, J. Glifford, Britch of Wales, West Prince of Wales, &c.), W. Glifford, S. Glifford, Britch of Wales, West Prince of Wales, &c.), W. Glifford, S. Glifford,

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#### Mining Gorrespondence.

BRITISH MINES.

BEDOL-AUR.—H. R. Harvey, Nov. 21: The 100 yard level, on St. Vincent's vein, is at present in disordered ground. The 100 yard level south-west is producing good stones of lead; the ground is of a highly favourable nature. Jones's tribute pitch, in the 70, is improving; set at 71. per 100.

BRONFLOYD UNITED.—Thos. Kemp, Nov. 20: The lode to the west of crossent, in the 63 fathom level, is worth fully 30 to 25 cwts. of ore per fathom. The stope in the stope under the 50, is worth about 2 tons of ore per fathom. The stope in the back of the 52, east and west of winze, are worth on an average 15 cwts. of ore per fathom. The lone in the 40 fm. level west end, is worth 20 cwts. of ore per fathom. The independent of the 100 fm. level west end, is worth 20 cwts. of ore per fathom. The independent of the 100 fm. level west end, is worth 20 cwts. of ore per fathom. The independent of the 100 fm. level west end, is worth 20 cwts. of ore per fathom. The independent of the 100 fm. level west end, is worth 20 cwts. of ore per fathom. The independent of the 100 fm. level last week, holds out well, and is likely to continue. On Monday we sampled 50 tons of lead ore, which will be on sale on the 25th Instant.

The lode in the 50 fm. level of 100, east of engine-shaft, is without change since last reports. In the 90 west the lode continues much the same as for some time past. The lode in the 85, east of No. 1 winze, is worth 2 tons per fathom. The lode in the 50 west is gradually improving, now worth 1 ton per fathom, and a very promising-looking end. The lode in the 62 cast continues of much the same character as last reported. Bramweiti shaft shaling heavy to make good the holing point, which is quite satisfactory, when we shall commence to fix in skip-road, and draw off the staff as soon as possible from the 75 fm. lovel. I hope to complete this werk is the time named in my report of Oct. 21. Our tribute department is not looking so favourable as formerly, but I hope a change for the better will soon take plan

of this end, and I expect that we are near to another shoot of ore. Stopes No. 2 and 3, in the back of this level are worth respectively 1 and 14 cwts. of lead ore per fm. Stope in the back of the 40 fm. level produces 15 owts of ore per fm. Stope in the back of the 40 fm. level produces 15 owts of ore per fm. The control of the former workings, is holding to the south of the former workings, is holding to the south of the former workings, is holding to the south of the former workings, is holding to the south of the former workings, is holding to the south of the former workings, is holding to the south of the former workings, is holding to the south of the former workings, is holding to the south of the former workings, is holding to the south of the former workings, is holding to the former workings, in holding the former workings, is holding to the former workings, in holding the former former workings, in holding the former former former workings, in holding the former former

the old workings, are worth 121, per fathom for the part being carried; we shall take down the remainder of the south branches by our usual mode of stoping swe advance. The several stopes opening on the south, or new discovery of the ground, are profitably productive, with every prospect of a continuance. We are pushing on the erection of the new stamps, together with the dressing-floors, and no time will be lost on this important work.

EAST CHIVERTON.—J. Groce, Nov. 16: Since last report we have driven in south, and cut the branch that passed through the shaft some 5 fms. above the present level, where we find it small, and similar to what it was in the shaft, consequently we have suspended this point, and resumed the driving of the cross-cut, oxpecting to meet with the north part of the Chiverton lode, and as well intersect the caunter and other lodes that are known to be averse to this part of the sects. No. 1 lode, in the end east from cross-cut, is 1 foot wide, composed of capel, killas, spar, and some mundle. In the end west the lode is 1 in. wide, a very promising flookan and mundle; driving at 36s, per fm.; we intend to push this level to get under the orey ground passed through in the shallow level, near the boundary shaft, where we hope to meet with a productive lode. Our engine, &c., is in good working order.

EAST GUNNISLAK E.—J. Bray, Nov. 21: In the 44, westor Gard's shaft, there is no change to note. We have resumed driving the cross-cut south of the 36, or the purpose of intersecting the mildie and south lodes. The development of this point I shall look forward to with much interest, as I think there is werry chance of our opening up something good at this point. In the shallow addit the lode is skill large; the part we are carrying is 4 feet wide, composed of gossan and prian, with strings of black ore, as pretty a lode as can be seen.

EAST LAXEY.—W. H. Rowe, Nov. 18: There is scarcely any change here to quartz, with a little copper and black jack.

EAST Are the composed of the composed of th

pect an improvement here in a few fathoms further driving, where the lode intersects or joins the old Neptune lode. The stopes in the back of the 1s, east and west, are producing saving work for copper.

EAST SNAEFELL—W. H. Rowe, Nov. 19: Although not just now yielding as much ore as last week, the 1s end looks very kindly, and the lode still producing good saving work. We have not yet reached the footwall of the lode in the new shaft, and the water is getting heavy.

EAST ROSEWARNE.—C. Glasson, Nov. 21: In King's shaft, sinking below the 105, the lode is 1s in. wide, worth 10!, per fathom. The sinking of the shaft will be suspended while the men are opening ground for trip-plat, which will take about three weeks from this date. There is no change to notice in the 105 fathom level west since my last report. In the 105 cast the lode is 12 in. wide, worth 3l. per fathom. In the 95 west the lode is 12 in. wide, worth 3l. per fathom. In the 95 west the lode is 6 in. wide, worth 3l. per fathom. In the 95 west the lode is 6 in. wide, worth 3l. per fathom in the 85 west the lode is 10 in. wide, worth 6l. per fathom.

EAST WHEAL RUSSELL.—W. Richards, Nov. 19: We have intersected and cut through the north lode in the cross-cut north in the 130, east of the silde and find it to be 3f. wide, containing capel, quarts, peach, mundic, and a little copper ore, but not enough of the latter to value. The north wall is well defined, and we shall now drive east on its course. I am glad to acquaint you that one pare of the tributers in the back of the 66, east of Homersham's shaft, have, by driving a short cross-cut north, intersected the north part of the middle lode, and made, from present appearances, a good discovery; this part, as far as opened on, is 3 feet wide, and will yield 3 tons of moderate quality yellow copper ore per fathom, and, judging from its present bearing, it seems to be going back north of the 66 drivage into new ground; this will be proved by further development. I will send you the regular report of the mi

W. Richards, Nov. 21: Innere in outside to specific the problem in the old with Thurs as healthy strong lode in the shaft sinking below the 60: this sinking has been delayed on account of taking up the water to a swallow, but it will go on unitedruptedly nov. I hold the opinion only to persevere with the sinking of this shaft to accomplish this very desirable object.

The problem of the problem of the shaft to accomplish this very desirable object.

The problem of the problem of the shaft to accomplish this very desirable object.

The problem of the probl

GREAT WHEAL FORTUNE.—T. George, Nov. 21: The lode in the pitch in obtion of the 114 is further improved, now worth over 100, per fm. No change nany other part of the mine.

GWYDYR PARK.—W. Smyth, Nov. 19: There is no particular change in wyn Lilfon deep adit since last report. In Gwydyr adit driving west the lode is tout it. wide, principally composed of spar, mundle, blende, and good stones of opper ore—a kindly lode.

copper ore—a kindly lode.

HARWOOD.—J. Race, Nov. 15: We have cut nothing of importance in the end of Scarhead level yet. The stope in the back of the drift east in the north string is improved a little to-day, worth from 10 to 12 cwts. of ore per fm. at present; the stope underfoot, in the west end of north string, is nearly worked out up to the end; I think we shall have to drive the end away again next week. The stope in the south branch is worth \( \frac{1}{2} \) to of ore per fm. No change to note in Lack's old level nor in Green Band level. We have 3 tons of ore dressed and on the floors, and from 3 to 4 tons more broken in the mine. Walton and Co. LOVELL, CONSOLS.

have lifted all their 20 tons.

LOVELL CONSOLS.—William Chappell, Nov. 22: We have cleared the adit level, east of Combellack shaft, 40 fathoms, for 30 of which the lode has all been taken away in the back, and for 20 fathoms long in the bottom of the level, from 16 to 18 feet deep, by the former workers. We are daily expecting to clear to the end, where I am informed the lode is 2 feet wide, and producing good work for tin. The Combellack shaft is sunk 9 fathoms below the adit level, and the tin raised from this shaft paid the whole cost of the mine. There is now a good lode in the bottom. The Combellack lode is the largest and strongest I have seen in the mine, and the former workers had a splendid course of tin for 30 fathoms long. As soon as we can see the end and level cleared we shall drive the end east, and clear the shaft to the bottom. We shall attach surface-rods to the engine, and sink on the course of the lode below the adit. I am very much

libprovement. The ground in the cross-cut driving north from Northey shall is in highly mineralized ground, and we find very rich stones of mundle in the branches which we meet with. This and appears near a lode. Our prospeta are better.

NORTH PHCHIX.—J. Seccombe, J. Martin, Nov. 15: The 160 to drive west in the killas on the south side of the lode by six men, at 7t. 10s. per fathom; the islas on the south side of the lode by six men, at 7t. 10s. per fathom; the ground has a little improved. The 140 to drive west in the killas on the south side of the lode by six men, at 5t. 10s. per fathom; the lode contains mundle and spots of ore, and is letting out water more freely. To rise a No. 2 winze in the back of the 140 to drive west in the killas on the south side of the 10de contains mundle and spots of ore, and is letting out water more freely. To rise a No. 2 winze in the back of the 140, by four men, at 2t. 10s. per fathom; this is to prove a point where the water is highly charged with copper. To drive east from No. 1 rise, in the back of the 140, by four men, at 3t. per fathom; for the whole of the 12 fms. driven we have had some rich copper ore in the eastern end, therefore we propose driving a short distance to ascertain whether it improves in that direction.

NORTH POOL.—J. Vilvan and Son, F. Clymo. Nov. 21: Middle Lode: In sinking the sump under the 40 the lode has again improved for copper, now 1½ ft. wide, and containing good stones of yellow copper ore, with a congenial matrix of quartz. In the 40 east the lode is improving, containing agood soild leader of yellow copper ore, which appears to be increasing in quality. Ballarta lode, in the 40, west of shaft, is 15 inches wide, composed almost entirely of quarts, which is of a favourable nature for the production of copper; this end is rapidly approaching the junction with the middle lode, where an important improvement may fairly be expected.

NORTH SHEPHERDS.—H. Bennetts, Nov. 21: The lode in the 50, west of flat-rod shaft, on the Hartz lode, is much

10, north of the No. 1 boundary shaft, is 2 ft. wide, composed of quartz, gossan, &c., of a promising appearance, and the ground is also favourable for the production of lead.

NORTH ROSKEAR.—J. Vivian and Son, R. Angove, Nov. 12: Good progress has been made in building the engine-house at Pearce's shaft, the bob wall being up to its height, and in about a week the house will he complete, when the engineer will at once commence putting the engine in its place. Pearce's shaft has been made complete for the rods, &c., at the following points:—From the surface, down 51 fms.; from the 50 fm. level, down 15 fms.; from the 70 to the 80 fm. level, down 10 fms.; from the 194 to the 206 fm. level, down 11 fms.; total, 90 fms. We shall from this time make much more rapid progress, the shaft being larger below the points which we have yet reached to the 184 fm. level, where it reaches and passes through the ore ground which has been taken away down to the 194 fathom level. so that from the 184 to the 194 fm. level there will be very little cutting required at any point. We are cutting ground for a balance-bob in the 119 fm. level, which will be finished in time for the other work. All the work connected with the erection of the engine, and fixing the pitwork in Pearce's shaft, is being pushed forward as quickly as possible, with the view of getting to work on the ore ground below the 205 fm. level with the least possible delay. We have six mon engaged in driving the 140 fm. level cross-cut south from Wheal Seton towards North Roskear north 10de. The tin stopes are looking a little better. NORTH TEESKERBY.—R. Pryor, J. Tregoning, T. Jenkin, Nov. 21: Engine-Shaft: The lod's in the 120 fm. level end, east of shaft, is 9 ft. wide, producing a little ore, but not quite enough to value; we hope to communicate the end to Tredder's shaft in about a month's time. The lod's in this level, evet of shaft.

NORTH TEESKERBY.—R. Pryor, J. Tregoning, T. Jenkin, Nov. 21: Engine-Shaft: The lode in the 120 fm. level end, east of shaft, is 2 ft. wide, producing a little ore, but not quite enough to value; we hope to communicate the end to Treidder's shaft in about a month's time. The lode in this level, west of shaft, is 2½ ft. wide, composed of peach, spar, and flookan, with stones of copper oreak kindly lode.—Treadder's Shaft: The lode in this lank, sinking below the 130, is has improved in appearance and character, and is now producing a little time which is always the case in the coming in of a good lode of copper ore. The lode in the 130 fm. level end, east of shaft, is large, and producing a little copper, with a good appearance. The lode in the 190 fm. level end east is 4t. wide, and worth 181, per fathom. No. 1 stope, in the back of this level, is worth 141, per fathow. No. 2, 181; and No. 3, 181; and 3, 181; and N

OLD GUNNISLAKE.—H. Rickard, Nov. 20: The lode in the 21, south and west of Michael's shaft, on the south, or green lode, is equally productive as last week; the ground is a little stiffer for driving, and opening up good tribute ground. The plunger-lift from the shallow add to surface is completed, and ground. The plunger-lift from the shallow add to surface is completed, and surface pushing on the clearing and securing of the 31 west, on the south, or we are pushing on the clearing and securing of the 31 west, on the south, or we are making good progress in clearing an opening up the 41 fathom level west were making good progress in clearing an opening up the 41 fathom level west were making good progress in clearing an opening up the 41 fathom level ground in the 41 fathom level with all speed. The tributers are working in good spirits, and everything on the milled is going on well.

we a boile, as fast as possible, and hope to reach the cha within a few days, green baiking good progress in clearing an opening up the 44 fathom level west we a michael's, on the middle lode, and shall commence in the 61 fathom level from allepsed. The tributers are working in good spirits, and everything on well.

FBDN-AN-DREA UNITED.—W. Tregay, J. Thomas, E. Chegwin, Nov. 16: PBDN-AN-DREA UNITED.—W. Tregay, J. Thomas, E. Chegwin, Nov. 16: Department of the fathom. The stope in the back of this level is worth 150, per fathom; lower that the stope in the back of this level is worth 150, per fathom; lower that the stope in the back of this level is worth 151, per fathom; lower that the stope on ext week setting to drive on its course. The lode in the 100 east we prose next week setting to drive on its course. The lode in the 100 east we prose next week sets worth 151, per fathom. Nothing new intersected in the fathom that the stope is worth 161, fathom,—Cobler's: The lode in the 110 east is worth 53, per fathom. In 10 west is worth 154, per fathom. No there change to report.

Per fathom. No other change to report.

Per fathom in 10 in the stope of the stope

4ft. under the spreamt sinking at the rate of about 2½ fms. per month. The ground is a little harder, but every effort is being made to get down the shaft as fast as we possibly can.

ROSECLIFF AND TOLCARNE.—R. Pryor, T. Gundry, Nov. 20: The ground in the 5e cross-cut, driving north of Lindo's engine-shaft, is a little more favourable for driving, and the men are making fair progress. No. 3 lode, driving east and west of this cross-cut, is just the same as when last reported on, with the exception of the ends letting out more water. The lode in the stopes in the back of the 30, on No. 4 lode, is not quite so good for lead.

SORTRIDGE CONSOLS.—R. Jackson, Nov. 21: In the 140, west of Hitchins's engine-shaft, the lode is 1½ ft. wide yielding good stones of copper ore. In the 140, east of the engine-shaft, the lode is 2½ ft. wide, yielding good saving work, and looking very promising for further improvement. There is no change to notice in any other part of the mine.

SOUTH CONDURROW.—Joseph Vivian and Sons, Wm. Williams, Nov. 16: King's shaft is now 10 fathoms below the 71, where the lode has divided into two parts, the shaft being sunk on the north part, which continues with the regular underlie of the lode above, whereas the south part has taken a south underlie, but will, probably, turn again, and form a junction with the north part of the lode has been hitherto small, but increasing in size, and contains a little black copper ore. The south part of the lode is 1½ ft. wide, and produces a little black copper ore. In the 71 west the lode is composed principally of ferruginous flookan. In the deast the cross-course is 2 feet wide, and produces a little black copper ore. In the 71 west the lode is 10 ft. wide, composed of flookan, quartz, and iron. In driving the 61 sorth, on the cross-course, our progress is slow, owing to the channel of hard hornblende, which we have encountered. In the 61 west we continue to cross-cuts south, through a hard tin lode, which has now been passed through a distance of 2 fathoms 4

siming a small branch of copper ore. The 30, west of Vivian's snart, concinues of a favourable character, being 3 feet wide, and yielding about ½ ton of black copper ore per fathom.

SOUTH DARREN.—J. Boundy, Nov. 18: The lode in the 70 west is 20 inches wide, producing spots of lead and copper. I think we shall soon have a change for the better here, as the lode is opening wide, and the ground is getting more mineralised. The lode in the 60 west is 3 feet wide, worth for lead and copper or 20, per fathom, with every prospect of further improvement. The lode in the 60 west is 18 feet wide, and worth for lead and copper or 181, per fathom—a very promising lode. The stopes are producing about their usual quantity of ore. Other points of operation are just the same as for some time past. SOUTH DOLCOATH.—Geo. Lightly, Nov. 20: In the 66, east of the flat-rod slaft, the lode is 1 ft. wide, containing stones of ore. In the winze in the bottom of the 56 east the lode is 1½ ft. wide, yielding 1 ton of good ore per fm. The 5d west is still being driven through the cross-course.

SOUTH FOWEY CONSOLS.—F. Puckey, Nov. 20: We have sunk and secured the engine-shaft to the adit level, cut the plat, &c., and have resumed the sinking of the shaft, which is now down 3 fms. below the adit. We have erected a horse-whim, and commenced drawing with 1 this morning, and are pushing on er surface operation—excavating ground for wheal-pit, &c., with all speed. SOUTH HERODSFOOT.—W. Goldsworthy, Nov. 21: We are pushing on the sinking for the bearers and elstern in the 80 a stast as possible. The engine and pitwork are in good order, and keeping the water comfortably.

SOUTH WHEAL GRENVILLE.—G. R. Odgers, W. Bennetts, Nov. 16: The lode in the 20, east from the engine-shaft, is 2 ft. wide, composed principally of quartz.

ET. IVES WHEAL ALLEN.—J. Daniel, Nov. 21: The lode in the 40, east of

sou'll WHEALGRENVILLE.—G. R. Odgers, W. Bennetts, Nov. 16: The lode in the engine-shaft, is 1 ft. wide, composed of quartz, &c., with stones of ore; and the lode in the eastern end is of much the same size and character. The lode in the 20, east from the engine-shaft, is 2 ft. wide, composed principally of quartz.

ST. IVES WHEAL ALLEN.—J. Daniel, Nov. 21: The lode in the 40, east of Gesler's shaft, has improved, now worth 10l. per fathom. The lode in the 12, east of Richards's, is 2 ft. wide, worth 3l. per fathom.

ST. JUST AMALGAMATED.—Richard Pryor, R. P. Goldsworthy, R. Wearne, Nov. 20: Eastern Mine: The lode in Phillips's engine shaft, sinking below the 20, is without much change to notice. The lode in the 20 is producing a little ils.—Western Mine: The lode in Savenil's engine-shaft, sinking below the 90, is worth 12l, per fathom, and the ground rather spare for sinking. The lode in the 90 fathon level end east is worth 8l, per fathom, and improving. The lode in the stopes in the back of this level is worth 7l, per fathom. The lode in the 90 fathon level end east is worth 7l, per fathom. The lode in the 90 fathon level end east is worth 7l, per fathom. The lode: The lode in the 40 north, from Reddipper shaft, is a little disordered, and has declined in the 40 north, from Reddipper shaft, is a little disordered, and has declined in the 40 north, from Reddipper shaft, is a little adole in the 20 fathom level (e. Vele is without change. The lode in the 10 north, from West Buck shaft, is worth 3l, per fathom, and promising for further improvement. The ground in the addit cross-cut is favourable, and we are sanguine as to the results on reaching the Wheal Owb tranch.—North Lode: The 46 fathom level end east is without change; this remark will also apply to the 20 east.—Reddipper Lode: We have set the 20 fathom level end east on tribute, at 14s. in 1l. We are making fair progress in the eross-cut south, in the 20, towards Wheal Dower lode.

SUMMER HILL.—W. Wasley, Nov. 21: I am glad to say that the south-west l

TTRE HEAD.—G. Millican, Nov. 16: The Type Head Mine level is very hard to divive at present. We have gone through a north and south atring this week, which has thrown the beds or sill down about 21n, on the other side of this atring, The which has thrown the beds or sill down about 21n, on the other side of this atring, The divide across for the vein.

TIGRA AND CLOGAU.—W. J. Holman, Nov. 21: Since last report visible gold has been broken from the stope est of No. 4 shaft; is line last given the vein the western stope, from No. 4 shaft, is still enlarging, and maintains its usual quality. The stope west from No. 3 shaft is turning out stamping mineral of very fair quality, and the look is now et A. wide. In the drivage east from No. 1 should not be the vein the stope at surface, west of No. 1 shaft, looks well for gold; the lode is dividenting out very much as we get near No. 1 shaft. At the old Cloqual copper mine the works are progressing rapidly. In the Jenny's adit, at Vigra Mine, in the stope at surface, west of No. 1 shaft, looks well for gold; the lode is dividenting out very much as we get near No. 1 shaft. At the old Cloqual copper mine the works are progressing rapidly. In the Jenny's adit, at Vigra Mine, which we have a surface, well of No. 1 shaft, looks well for gold; the lode is all the stope at surface, which we have a surface of No. 1 shaft, looks well for gold; the lode is all the stope of the s

WEST WHEAL TREMATINE.—S. ROGERS, NOV. 19: We have taken down the lode in the 20 end, and found it much like what we expected; it is a regular-size lode, about 10 in. wide, yielding good stones of copper ore, and ground easy enough for driving. The south cross-cut still requires timber, although we have left the cross lode to the left. No other change since last week.

WHEAL AGAR.—E. Rogers, Nov. 20: There is no change to notice in any in any other part of the mine since last reported, except in the 150 fm. level end, east of the flat-rod shaft, where the lode is not quite so large nor so easy for driving.

end, east of the flat-rod shaft, where the lode is not quite so large nor so easy for driving.

WHEAL BULLER,—J. Inch, J. Brown, Nov. 20: Stevens's Shaft: The 92 east, on the south part of the lode, is worth for the 5t, per fathom. The 92, on the north part, is unproductive. In the 92 west we are driving north through the horse to cut the main part of the lode. The 80 east is unproductive. The winze under this level is unproductive. No. 1 stope, in the back, is worth 30, per fathom. No. 2 stope is worth 20t. per fathom. The 70 east is worth 8t, per fathom. He 60 west, on the north branch, will produce ½ ton of rich copper ore per fathom.—Hocking's Shaft: The 80 east is producing stones of tin and copper ores. The 70 west is worth 25t, per fathom. The winze sinking under this level is worth 12t, per fathom. The stope in back of the level is worth 16t, per fathom.—Kistle's Shaft: The 80 cross-cut through the lode is still poor. The stope under the 80 is worth 30, per fathom. We sent nearly 10 tons of tin to the smelting-house last Wednesday, since which we have changed one of the bollers at the stamps engine, which went to work all right on Saturday night. We are breaking our usual quantity of tin.

WHEAL CREBOR,—J. Gifford, Nov. 21: In the 108 east the lode is 1½ ft. wide, worth 5t, per fm.—South Lode: In the 108, west of the cross-cut, near the eastern end, we shall take down the lode on Friday and Saturday. The lode in Davie's pitch, in bottom of the 96 east, is worth 16t, per fm. There is no there change to notice.

WHEAL SPARNON.—Wm. Tregay, Nov. 16: There is no change here to note

nange to notice.
WHEAL SPARNON.—Wm. Tregay, Nov. 16: There is no change here to note

change to notice.

WHEAL SPARNON.—Wm. Tregay, Nov. 16: There is no change here to note since the report made to the general meeting, held on the 12th inst.

WHEAL GRENVILLE.—G. R. Odgers, W. Bennetts, Nov. 21: We have no change to report in the new shaft slaking below the 120. Til indications are very promising indeed. In the winze slaking below the 100 the lode is producing good tin; and as soon as we have assayed the stuff you shall be informed as to the value, &c. No alteration in any other part of the mine.

WHEAL KITTY.—William Teague, Stephen Davey, William Polkinhorne, Nov. 18: In the 82, on the old lode, driving west of Hoigate's shaft, the lode is improved, worth for tin 51, per fathom.—Pryor's Lode: In the new shaft, slaking under the 82, the lode is thrown down at present by a gossan, and much discussed in the state of the shaft, which would at be visue. In the 82, of lode is worth for the shaft, which would at be visue. In the S2, driving east of shaft, the lode is much improved in appearance, being full 2 ft. wide, worth for tin 101, per fathom. In the 82, driving west of shaft, the lode is much improved in appearance, being full 2 ft. wide, worth for tin 101, per fathom. In the st, driving west of shaft, the lode is worth for tin 18, per fathom. In the winze slaking under the 63, the lode is worth for tin 18, per fathom. The lode in the winze slaking under the 54, west of shaft, is worth for in 81, per fathom. The two such in the winze slaking under the 54, west of shaft, the lode is worth for tin 18, per fathom. In the winze slaking under the 54, east of shaft, the lode is worth for tin 18. Per fathom. The lode is worth for tin 18 and the state of shaft, the lode is worth for tin 18 and the state of shaft, the lode is worth for tin 18 and the state of shaft, the lode is worth for tin 18 and the state of shaft, the lode is worth for tin 18 and the state of shaft, the lode is worth for tin 18 and the state of shaft, the lode is worth for tin 18 and the state of shaft, the lode is worth for tin 18 a this cross-cut south, to cut the old lode, and any others that may be in that direction. The tribute pitches continue to yield their usual quantity of tin, and we hope to raise a similar quantity for the ensuing quarter, as credited this day. WHEAL KITTY (Lelant).—W. Rosewarne, Nov. 21: South Russoe Lode: The lode in the beach of the the beach of the doe in the 30, ask of shaft, is worth 3t, per fm. The lode in the boundary shaft, sinking below the 30, is worth for the length of the shaft (in the 30, is worth 6t, per fm. The lode in the winze westoof the shaft, in the 30, is worth 6t, per fm. The lode in the 20, east of shaft, is worth 4t, per fm.—New Lode: The lode in the stope in bottom of the 40, east of the cross-cut, is worth 6t, per fm. The lode in the rise above the 140, east of the cross-cut, is worth 6t, per fm. The lode in the rise above the 140, east of the cross-cut, is producing good stamping work.—North Russoe Lode: The lode in the 150, east of No. 3 winze, is worth 4t, los, per fm. We have holde No.3 winze from the 140 to the 150, and have opened up a good piece of tribute ground.—North Gowan Lode: The lode in the 50 fm. level, west of the rise, west of Rogers's shaft, is worth 2t, los, per fm. The tribute pitches are producing fair quantities of tinstuff. No other change to notice.

WHEAL MARY ANN.—P. Clymo, J. Harris, J. Stevens, J. Skeate, Nov. 21: The cross-cut in the 230 is driven east of Clymo's shaft 7 fathoms towards the lode. In the 230 north the lode is 2½ feet wide, worth 8t, per fathom. In the same level south it is a feet wide, worth 8t, per fathom. In the 100 north it is 1 feet wide, worth 6t, per fm. In the lode is still producing good stones of ore, and locking kindly for further improvement. In the same level south it is a feet wide, worth 10t, per fm. In the lode is still producing good stones of ore, and locking kindly for further improvement. In the same level south it is a feet wide, worth 10t, per fm. In the lode is still producing good stones of ore, and locking kindly for

about 4 fathoms below the 210. The lode in the 210, south of shaft, is 1½ foot wide, worth 61, per fathom. In the same level, north of shaft, we have just commenced to cut through the lode in the extreme end, and shall be able to say how it is looking in our next report. We are sinking a winze below the 196 fm. level, about 60 fathoms in advance of this end, and is down nearly 3 fathoms, in which the lode is worth 300, per fathom; this piece of ground seems to be drained by the 196, coming south of Smith's engine-shaft, which is very encouraging.—Smith's Engine-Shaft; No lode has been taken down in the 210, north and south, during the past mouth. The lode in the 196, north of Chippendaie's shaft, is 3 feet wide, but not containing sufficient ore to value. The 196, south of Smith's shaft, is now under the 196, north of Trelawny's; a communication will soon be effected, and lay open good tribute ground. We sampled, on the 19th inst. two parcels of silver-lead ore (compute) No. 1, 56 tons; No. 2, 52 tons; this will clow our returns for the quarter.

WHAL UNY.—S. Coade, M. Rogers, Nov. 16: There is no change of importance to report on this week. The principal points in the mine are of the same value as last week. We sold this day 18 tons 1 cwt. 1 qr. 9 lbs. of black tin, to Daubuz and Co., at 521, 10s. per ton.

#### FOREIGN MINES.

Daubuz and Co., at 521. 10s. per ton.

FOREIGN MINES.

CHONTALES.—W. B. Paul, Oct. 7: Consuelo Mine; During the past month all operations have been suspended here, except driving No. 3 level, and one Englishman with two natives securing the mine and keeping the ground open. The lode in No. 3 is just the same as for some time past—large, with a little gold, but not to value. Estrella the same as lost reported—nothing done.

—San Antonio: East San Antonio shaft has been holed to the deep addit level. We shall now case and divide the same as soon as the tunnel is properly secured, and the tramway will also be laid down the entire length, which will greatly facilitate the raising and sending to the mill a large quantity of middle-average ores, and expedite operations very materially. In No. 3 level west the lode is from 2 to 3 ft. wide, worth from 3 to 10. per ton. In No. 4 level west the lode is small and unproductive. We have sunk two winzes a little in the bottom of No. 4 level, in which the lode is from 3 to 4 ft. wide, and averages 3 to ze per ton. We cannot do any more work in the upper part of the mine till we obtain permission from the authorities to do so. This has been applied for some time, and we now await the arrival of the profecta for that purpose. We have commenced sinking a shaft from surface, to take the lode at No. 2 level, where there appears to be a junction of two lodes, from this to any required depth it will be sunk on the course of the lode, and communicate with each level in depth, for the purpose of ventilation.—Santo Domingo: The lode in the deep adit level, east and west from shaft, is from 4 to 5 ft wide, producing a little gold, of low percentage. The lode, however, has a promising appearance, and I hope as we advance it will improve in quality. The lode in the level driving west from Palma's shaft is now near the side of the hill, being in the clay. This will be holed in a few days, and ventilate the place for more extensive work, if we have labourers for it. The shaft sinking below

but can say nothing definite about them as yet.

JAVALI.—The Central American Association has received by the West India mail \$2677\$ worth of gold from this mine, together with the manager's monthly report, dated Sept. 30, the tenor of which had already been anticipated by advices dated Oct. 7, sent via New York, and alluded to in last week's Mining Journal. This gold was extracted from ore obtained in driving Plm's and Poliard's tunnels, the former of which is now 130, the latter 165 yards long. The supply of water during the month of September had been superabundant, the cholera panic was rapidly disappearing, and contracts had been entered into for pushing on the tunnels, and supplying the existing machinery with ore. These accounts, together with the encouraging manner in which the Central American shareholders have responded to the invitation to apply for Javail shares, have induced the directors of the Central American Association to introduce the Javail Company early next month.

MARIQUITA.—Sept. 19: Santa Ana Mines: The raise captain waites.

troduce the Javail Company early next month.

MARIQUITA.—Sept. 19: Santa Ana Mines: The mine captain writes
—"We commenced to draw mineral from the stopes on the 7th instant, and we
confidently hope in a few days to be able to raise as large a quantity as usual,
as the stopes are now in excellent working order." Marmato Mines for the month
of September—Cost, \$12,796; returns, \$1,786. The cause of the lower amount
of returns for this month is the lower standard of the mineral treated, and a
short supply of water. The cost is also increased by an extraordinary item of
\$800. Aguas Claras for the month of August—Returns, \$2940.

EL CHICO.—Extract of a private report received from Mr. W. Pike,
F.G.S., respecting this company's mine of El Torno, in Mexico:—The future of
this mine will depend on reaching the part under the shaft, which is now within
8 fathoms, as it was above this deep adit, now driving, that the old workers got
their riches. I think it desirable to proceed with the present operations with all
speed, as it is worthy of every effort.

[For remainder of Foreign Mining News see Supplement to this day's Journal of

speed, as it is worthy of every enort.

[For remainder of Foreign Mining News see Supplement to this day's Journal.]

#### [ADVERTISEMENTS.]

[For remainder of Foreign Mining News see Supplement to this day's Journal.]

[For mainder of Foreign Mining News see Supplement to this day's Journal.]

From Messrs. Ward and Jackman:—By steady perseverance the profitable nature of mining enterprise, embarked in with judgment, and conducted with integrity, has been made apparent to the greatest capitalists of the kingdom. It has been our constant endeavour, by all legitimate means, to cause British mining to be looked upon as one of the safest, as well as the most profitable, channels for the investment of capital; and although we may not at all times be successful in the selection of mines, yet it is in our power to prevent spurious schemes from being foisted on the public, and with such facilities as now exist for obtaining information of the real merits of any mine there is happly not much chance of imposition being practiced, if the public themselves will only use moderate care. Owing to the recent improvements that have taken place at several mines during the past week, much greater activity has been apparent in the Mining Share Market. It is well known to the initiated that several points of considerable importance are expected to come off shortly at East WHEAL CARADON, and consequently the shares have been largely dealt in. We would, under these circumstances, suggest that a report be sent to the Mining Exchange weekly again, as the points referred to certainly warrant much anxiety on the part of all interested, and it is only fair that all the shareholders should know of any discovery as near as possible at the same moment. Doubtless, nearly every shareholder is represented by some member of this institution; therefore, we hope our suggestion may be carried out, and many other companies would do themselves no harm by adopting the same course. Too much publicity cannot be given to all matters referring to mining, and anything on the part of a management leading parties to believe that the affairs are not conducted openly must tend to the south as one th

copper, is steadily improving. Very many mines to pay good dividends, some working at a profit at the present price of ore, and others of a more speculative character, may now be bought at very low prices.—CLIFFORD AMALGAMATED: These mines are now working at a profit. A very important improvement has taken place at Francis's shaft, and should their present prospects continue they will very soon resume paying good dividends. A good business has been done in Wheal SETON during the past week; the 170 west is worth about 3 tons, and the 180 2 tons. PRINCE OF WALES has never looked so well as at the present time. A dividend of is. will be declared this week; the next will be very much more. BEDMOOR, adjoining this mine, is a good speculation; shares can be had at a very low figure. EAST BASSET shares are well worth buying at the present price. TINCROFT MINES are looking exceedingly well, and shares in fair request at quoted prices; a dividend will be declared very shortly. North TRESKERBY is working at a profit; shares are very low, and well worth buying. SOUTH FRANCES is doing very well, and will pay a 2t, dividend at the next bi-monthly meeting.—West CARADON: The probability of a good improvement being met with here shortly is very great, driving on the South Caradon lode, towards that mine; shares can be had at a very reasonable price.

HOLLOWAY'S OINTMENT AND PILLS-DROPSICAL SWELLINGS HOLLOWAY'S OINTMENT AND PILLS—DROPSICAL SWELLINGS.—
the Whatever may be the remote cause of collections of water in the human body,
it must be prudent to disperse them as soon as possible. The readiest means of
accompilshing this end are supplied by using Holloway's Ointment, to increase
the the circuity of the absorbents. When this Ointment is well rubbed upon the
thin the thin of the blood, and prevents the deposit of serum and water,
the lower is they act more circuitously on the capillaries through the circulation, while his Ointment acts
directly through the skin. Both should be employed in dropsies and diseases
of the kidneys.

#### Projected New Companies.

Company.	Capital.	Shares		
Legal Co-operative Supply Association	€ 5,000	 1,000		2 5
Paramin Wax	12,000	 12,000		1
Stannon China Clay	2,500	 250		10
Cerro de Pasco Mineral Railway	260,000	 13,000		20
London General Street Tramway	500,000			
Vernon Heath and Co	3,507	 3,507	****	1
John Whiteley and Co.	20,000	 400		90

CERRO DE PASCO MINERAL RAILWAY COMPANY, 260,000%, in 13,000 shares, of 201. each. The objects for which this company is established are the making, maintaining, and working a railway, and intermediate branches. for the conveyance of the silver and other ores from Santa Rosa, and other mines in the city of Cerro de Pasco, to the various baciendas de beneficio, the vicinity of the said city, and the villages of Quillacocha and Sacrafamilia, and town of Pasco, in Feru; the acquirement of lands and minerals, the disposal of the same, and the introduction of labour for working of land, mineral, and other products, and the doing all such other things as are incidental or conductve to the attainment of the above objects. Guaranteed by contract between the Government of Peru and Messrs. WYMAN, HARRISON, and others, 7 per cent. per annum on the entire capital of 260,000, for 25 years. The number of directors shall not be less than five, nor more than seven, two of which shall be Peruvians First directors—HENRY B. SHERIDAN, THOS. CAMPBELL, WILLIAM FREDERICK WIGG, and two others, to be named hereafter in Peru. With the exception of the first directors, each of whom must possess lo shares at least, and the certificates for which shall remain in the custedy of the board, and no one of which shall be transferred so long as he is a director, and this must be mentioned in the certificates of their shares. The remuneration of the director's shall after the completion of the railways be such as the company from time to time determine. The Memorandum is signed by—Thomas Henry Harrison, 26, Beacon Hill, Camden Town, London, civil engineer, 20; Solomon Woodell, Windmill End, near Dudley, Worvestershire, manufacturer, 10; WILLIAM FREBERICK WIGG, The Grange, South Norwood Hill, Surrey, merchant, 10; HENRY BRINNLEY, SURRIDAN, M.P., 17, Westbourne-terrace, London, 16, Stock broker, 10; HENRY SUCKLING, 17, Gresham—street, London, 6, London, 16, Stock broker, 10; HENRY SUCKLING, 17, Gresham—street, London, 6, London, 16, Stock broker, 10 CERRO DE PASCO MINERAL RAILWAY COMPANY, 260,0002, in

the ordinary general meeting, to be held in the month of April, 1869, and their remuneration shall be fixed by the beard of directors.

LONDON GENERAL STREET TRAMWAY COMPANY, 500,000%, in 50,000 shares, of 10% each. The objects for which this company is established are to lay down and unintain tramways on the public roads and streets of the metropolis and suburbs, according to the system for which Letters Patent have been granted to CHARLES HERBERT BRIGHT, civil engineer, or according to any other system which may be adopted by the company; to work and use the same tramways, with carriages, for which Letters Patent have been granted to CHAS. HERBERT BRIGHT, C.E., or with any other carriages which may be adopted by the company; and also to work and use the same tramways, vith other vehicles and trucks, drawn by animal power only, to convey and carry passengers, goods, and merchandise upon such tramways; to use and work the said carriages, vehicles, and trucks by animal power only, upon the roads and streets of the metropolis and suburbs, or any part thereof, wherever the said company shall deen it expedients so to do; to levy tolls, rates, and charges for and in respect thereof; and to do all such other things as are incidental or conductive to the attainment of the above objects. The Memorandum is signed by—George Bulkley, 2. Pump-court, Temple, E.C., barrister-at-law, 5; CHARLES HERBERT BRIGHT, 2. Westminster Chambers, Victoria-street, Westminster, civil engineer, 5; THOMAS MERRGRAVE HEAPHY, 46, Sussex-street, Pimilco, civil engineer, 5; CHARLES EDWARD BALDOCK, 11, Bridge-street, Westminster, civil engineer, 5; CHARLES EDWARD BALDOCK, 11, Bridge-street, Westminster, gentleman, 15, BRNJAMIN RICHARD GREES, 41, Fitzroy-square, Middlesex, gentleman, 1, Registered without Articles.

Legal Co-operative Supply Association, 50001, in 1000 shares, of 51. each, with power to increase. The objects for which this company is established are to supply members of the legal profession, being serjeants-at law, barristers-at-law, Fellows of the College of Advocates, special pleaders, certificated conveyancers, solicitors, attorneys, writers to the signet, shareholders in, or subscribers to the company, and persons introduced by them and subscribing thereto, with articles for domestic consumption or general use, at low prices: to enter into contracts with trading and other firms or persons for the supply of goods or services to shareholders, members, or subscribers, for cash payments, at a reduced tariff; to establish one or more depots or general stores for the reception and sale of goods; to acquire by purchase, lease, or otherwise, lands, houses, and property in the United Kingdom of Great Britain and Ireland, for the purposes of the company; to borrow money, receive money on depost, issue transferrable or other bonds or mortgage debentures, or any other securities, founded or based upon all or any of the real or personal assets or credit of the company, &c. The Memorandum is signed by—WILLIAM STEBBING, 5, Old Buildings, Lincoln's Inn, barrister-at-law, 1; ARPHUR A. L. HARRISON, 2, New Inn, Strand, solicitor, 10; JOHN FINLAHON, 40, Chancery-lane, barrister-at-law, 19; B. ROBERT, 2, New Inn, Strand, solicitor, 1; F. O. CRUMP, 2, Brick-court, Temple, barrister-at-law, 1. The number of directors shall not be more than seven or less than three. Qualification, 10 shares. First directors, EDWARD ALFRED HALLEY, ARTHUR A. L. First directors, EDWARD ALFRED HALLEY, ARTHUR A. RAMSTRONG LOCK HARRISON, and JOHN FINLAHON, Equ. The remuneration shall be determined by the company at the first general meeting.

STANNON CHINA-CLAY COMPANY, 25004, in 250 shares of 104, each. LEGAL CO-OPERATIVE SUPPLY ASSOCIATION, 50001., in 1000 shares

ARTHUR ARMSTRONG LOCK HARRISON, and JOHN FINLAISON, Esgs. The reinuneration shall be determined by the company at the first general meeting.

STANNON CHINA-CLAY COMPANY, 2500C, in 250 shares of 10t. ench.
—The objects for which this company is established are to purchase and take on lease, or otherwise acquire and hold, certain mines and beds of china-clay and china-stone pottery, and the clay in, upon, and under certain lands and here-ditaments situate in the parish of St. Breward, in the county of Cornwall, now held under lease, or grant, dated sept. 29, 1807, from Sir Henry Onslow, Bart., to George Martyn, Ceclu Freth Holders, and John Hamilton, the purchase-money or consideration for which is to be 1000t. To purchase, take on lease, or otherwise acquire and hold, such other mines or beds of china-clay, china-stone, &c., in the neighbourhood of the aforesaid mines and beds as may from time to time be deemed advisable. To open and work all, or any, of such mines and beds, and extract the clay, &c., therefrom, and to dress and make marketable the same; and also therewith to make fire and other bricks, and tile and other things, and to sell the same for gain, &c. The Memorandum is signed by—George Martyn, Trewin House, Camelford, Cornwall, gentleman, 50; E. F. HOLDER, Fetwells, Camelford, Cornwall, gentleman, 50; E. F. HOLDER, Fetwells, Camelford, Cornwall, gentleman, 50; The H. H. Sober ROOKE, The Wadebridge, Cornwall, gentleman, 50; The NH HAMILTON, Ferris Town, Truro, Cornwall, agentle, 10; JOHN JAMES HAMPTON, Fore-street, Eodmin, Cornwall, ion-clay agent, 10; JOHN JAMES, I, Truro Vean-terrace, Truro, Cornwall, ion-clay agent, 10; JOHN JAMES, I, Truro Vean-terrace, Truro, Cornwall, ion-clay agent, 10; JOHN JAMES, I, Truro Vean-terrace, Eodmin, Cornwall, ion-clay agent, 10; JOHN JAMES, I, Truro Vean-terrace, Eodmin, Cornwall, ion-clay agent, 10; JOHN JAMES, I, Truro Vean-terrace, Eodmin, Cornwall, ion-clay agent, 10; JOHN JAMES, I, Truro Vean-terrace, Eodmin, Cornwall, ion-clay agent, 10; JOHN JAMES, I, Truro

PARAFIN WAX COMPANY, 12,000L, in 12,000 shares, of 1L each. For refining of parafin, petroleum, and other oils, fat, tallow, stearine, and other fatty, and oleaginous substances, the purchase and sale of any of the beforementioned articles, either in a crude or refined state, or of any products therefrom; the purchasing or acquiring any interest in any invention or inventions, whether protected by Letters Patent or not, for improved methods of refining or manufacturing any of the said articles, or the products therefrom; the seling or granting licenses to use any such invention; the contracting for the purchasing of any building, plant, or machinery that may be requisite or necessary for the above purposes, or any of them; and the doing of all such other sary for the above purposes, or any of them; and the doing of all such others, things as are incidental or conductive to the attainment of the above objects. The Memorandinm of Association is signed by—JOHN ROCHMORT UNLACKE, 13 JOHN LILLETMAN CLAYFOLE, 4, Palaces the Letter and the Majesty's army, 1; JOHN LILLETMAN CLAYFOLE, 4, Palaces the Letter, Buckingham—gate, gentleman, 1; SANUEL CRANE FOX. Granville-park, Blackheath, Kent, gentleman, 1; FRANKLIN LEIFCHILD, 16, Albert-road, Regent's-park, Middlesex, surveyor, 1; Thanklin Herry May, Upper Parkfield, Pulney, Surrey, gentleman, 1; GEORGE LEIFCHILD, 2, South-park, Nottig-phill, Middlesex, surveyor, 1; The number of directors, and the names of the first directors shall be determined by the subscribers to the Memorandum of Association shall be the directors of the company. Remuneration, 350t, per annum in every year until a dividend is payable to the shareholders of 10 per cent. on the paid-up share capital, and an additional sum of 100t, per annum for every 1 per cent. paid to the shareholders as dividend over 10 per cent. per annum until the total amount of remuneration shall reach 1000t, per annum of centre park and park to be the shareholders as dividend over 10 per cent. per annum until the total amount of PARAFFIN WAX COMPANY, 12,000%, in 12,000 shares, of 1% each

JOHN WHITELEY AND COMPANY, 20,000l., in 400 shares, of 50l. each JOHN WHITELEY AND COMPANY, 20,000L, in 400 shares, of 500.6 sacn, with power to increase. For the purchase of certain paper, woollen, and other mills, warehouses, messuages, cottages, erections, buildings, or tenements, closes of land, reservoirs. gasworks and premises, with the machinery now standing therein, commonly called the Firth House Mills Estate, attuate in the township of Stainland and Barkisland, in the parish of Halifax, Yorkshire, heretofore occupied by John Whiteley and Son and their tenants; and also of purchasing the goodwill, stock in trade, and business of the said John Whiteley and Son as reaser-makers; and of carrying on in the said mills, or at any other mills, waregoodwill, stock in trade, and business of the said John Whiteley and Son as paper-makers; and of carrying on in the said mills, or at any other mills, warehouses, &c., it may be deemed advisable to purchase, erect, build, or rear, the trade or business of paper-makers, with all its branches and incidents thereto belonging, and also to purchase and acquire any other trade and business of a like nature, &c. The Memorandum is signed by—GROBGE CLARKE, 21, Manchester-street, Huddersfield, Yorkshire, innkeeper, 20; ALUN BROOKHAIGH, Northlane Paddock, near Huddersfield, Yorkshire, manufacturer, 30: JAMES STOTT, Dalton, near Huddersfield, Yorkshire, farmer, 10; DAVID FOX, West Vale, near Halifax, Yorkshire, manufacturer, 10; JAMES ASHWORTH, Firth House Mills, Stainland, Halifax, Yorkshire, paper-maker, 10; CHAS, EMMER, of The Square, Vorkshire, sollettor, 20; THOMAS FICKARD, 1, Eyro-road, Halifax, Yorkshire, sollettor, 20; THOMAS FICKARD, 1, Eyro-road, Halifax, Yorkshire, Sollettor, 20; THOMAS FICKARD, 1, Eyro-road, Halifax, Porkshire, Brist Directors—Join Stort, JAMES STOTT, GEORGE CLARRE, A. BROOK HAIGH, and DAVID FOX. Qualification, 10 shares.

THE CAEN STONE OF FRANCE has a rival in the stratified limestone which underlies the whole of the high prairie land of Kansas. A correspondent describes it as white, cream colored, hink, yellow, and red, lying horizontally,
and requiring no other quarrying than the use of a crowbar to lift it is blocks
from its bed. So easily worked is it that he has seen it hewn into shape with a
common wood-axe, and mortised with a carpenter's chies as easily and quickly
as a pine beam; he has also seen it planed with a jack-plane, sawed with; a scrolisaw into brackets and ornamental door and window cape, and cut with a buzzsaw into blocks for street pavements or bricks of any size. The material hardens
on exposure to air, and becomes as impenetrable as Tennessee marble.—American
Journal of Mining.

LONDON GENERAL OMNIBUS COMPANY,-The traffic receipts for

With this week's Journal a SUPPLEMENTAL SHEET is given in which appears—Prof. Smyth's Lectures at the Royal School of Mines, Nos. II., III., and IV.—Winder's Rotary Pump—Government Inspection of Coal Mines, No. II.—Hot Air for Blast-Furnaces—The Two Great Colliery Shafts of England and America—Hydro-Carbon as a Fuel, by Mr. F. H. Thomson—Foreign Mining and Metallurgy—The Australian Mines: Monthly Summary—Reports of Foreign Mines: St. John del Rey, Anglo-Brazilian Gold, Rossa Grande Gold, Alamillos, Linares, Fortuna, and Lusitanian—Reports of Meetings: Prince of Wales, Wheal Kitty, North Wheal Robert, and East Wheal Rose—The Stannaries Court—Puddling by Machinery—Institution of Civil Engineers—Society of Engineers—Society of Arts, &c.

With last week's Journal a SUPPEMENTAL SHEET was given, in which appears—The Government Mine Inspection Reports— Patent Ventilated Fuel—The Government School of Mines: Prof. Warington Smyth's Lectures—Proceedings of Public Companies: Meetings of the New Wheal Lovell Mining Company: the Lucy Phillips Gold Company: The Cape Copper Company—Foreign Mining and Metallurgy—Foreign Mine Reports: The Lusita-nian, Nevada Land and Mining Company, Capula, Val Sassam, Pestarena, Val Antigoria, West Canada, and The Tin Trade.

#### The Mining Market; Phices of Metals, Ores, &c.

METAL MARKET-LONDON, NOVEMBER 22, 1867.

METAL MA	KEI-LONDON, NOVEMBER 22, 1807.
COPPER. £ s. d. £ s. d.	IRON. Per ton.
Best selectedp. ton 77 0 0- 78 0 0	Bars Welsh, in London 6 10 0
Tough cake and tile 76 0 0- 77 0 0	Ditto, to arrive 6 10 0
Sheathing & sheets. 80 0 0	Nail rods 7 0 0- 7 10
Bolts 83 0 0	Staffd. in London 7 10 0-8 10
Bottoms 85 0 0	Bars ditto 7 10 0- 9 10
Old (Exchange) 70 0 0- 71 0 0	Hoops ditto 8 10 0- 9 12
Burra Burra 84 0 0- 85 0 0	Shoots single 9 5 0-10 0
Wireper lb. 0 1 0- 0 1 01/2	Pig No. 1, in Wales 3 15 0-4 5
Tubes 0 0 111/2 1 0	Refined metal, ditto 4 0 0-5 0
	Bars, common ditto 5 15 0-6 0
BRASS. Per lb.	Do. mrch. Tyneor Tees 6 10 0
Sheetsper lb. 9d10d.	Do., railway, in Wales 5 0 0- 5 10
Wire ,, 81/2d91/2d.	Do., Swed. in London. 10 2 6-10 5
Tubes , 101/2d11d.	To arrive
Yellow Metal Sheath.p. lb. 71/d	Pig, No. 1, in Clyde 2 14 6-3 1
	Do. f.o.b. Tyne or Tees 2 9 6-
	Do. Nos. 3,4,f.o.b. do. 2 6 6-2 7
SPELTER. Per ton.	Railway chairs 5 10 0- 5 15
Foreign on the spot. £21 15 0	anthos 11 0 0 10 0
, to arrive 21 15 0	,,
	Indian Charcoal Pigs,
ZINC.	in London p. ton 7 0 0- 7 10
n sheets£28 0 0- —	STEEL. Per ton.
TIN.	Swed., in kegs(rolled)14 50
English blocks 96 0 0	, (hammered) 15 10 0-15 15
Do., bars (in barrels) 97 0 0	Ditto, in faggots16 0 0
Do., refined 99 0 0	English, spring17 0 0-23 0
Banca 92 10 0	QUICKSILVER (p. bottle) 6 17 0
straits£89 10 0- 90 0 0	
TIN-PLATES. Per box.	LEAD. Per ton.
	English Pig, com19 5 0-19 10
C Charcoal, 1st qua. 1 7 6-1 9 6	
X Ditto, 1st quality 1 13 6- 1 15 6	
C Ditto, 2d quality 1 5 6-1 7 6	Ditto, ordinary soft + 20 0 0
X Ditto, 2d quality 1 11 6- 1 18 6	Ditto, sheet20 10 0-20 15
C Coke 1 2 6-1 4 6	Ditto, red lead20 15 0-21 5
IX Ditto 1 8 6- 1 10 6	Ditto, white27 0 0-30 0
Canada plates, p.ton 13 10 0	Ditto, patent shot 22 10 0-23 0
Ditto, at works 12 10 0	Spanish

\* At the works, 1s. to 1s. 6d. per box less.
† A Derbyshire quotation: not generally known in the London market.

REMARKS.—It is a matter of regret, though not, perhaps, of surprise, that no alteration for the better has yet made its appearance in the Metal Market, and that still patience has to be exercised before the arrival of that long-waited-for, and much-desired improvement in business comes. It is to be hoped that the opening of a new Session of Parliament, with the activity in political affairs which always then takes place, may in some way lead to a corresponding activity in commercial affairs, and that the stagnation which appears to have come upon the latter may be found to give way before the life and vigour of the former. The assurance given in the Queen's speech at the opening of Parliament of the continued friendly fee'ing with all foreign powers, and that there is no reason to apprehend the disturbance of the general peace of Europe, will be received with much satisfaction, as also the statements from the Premier and the Foreign Secretary, by which it will be seen that the Government have avoided taking any part in the Conference proposed by the Emperor of the French in the dispute between Italy and the Pope, which there is too much reason to fear will lead either to failure or to dangerous entanglements, and yet have done so withand the rope, which there is too much reason to fear will lead either to failure or to dangerous entanglements, and yet have done so without in any way injuring the cordiality existing between this country and the French Emperor. We may, therefore, hope that these circumstances may tend to encourage a restoration of that confidence which is so much desired, and the want of which has been the great cause of so much inactivity in business; and when once this is fully restored we have no doubt the position of the Metal Market will be very different from what it, now is, and that we shall find activity very different from what it now is, and that we shall find activity more generally prevailing.

OPPER.—The market for this metal can hardly be said to have at

all altered during the week; no transactions of any moment have occurred, and prices continue without much variation. Rather con-

occurred, and prices continue without much variation. Rather considerable sales of Chili bars have, however, taken place, principally at 694, but some portion at 692, 10s.

IRON.—In Staffordshire orders came in slowly, and there is hardly so much doing as before. The closing of many of the principal ports always makes the trade quieter at the end of the year, and at present every market is dull. There are some hopes of a demand from the United States, and all accounts agree in stating that stocks are reduced to the lowest point everywhere. In Welsh the manufacturers are better off for orders than they were last week, and employment at the works keeps about the same. The closing of the facturers are better off for orders than they were last week, and employment at the works keeps about the same. The closing of the Russian trade for the season has undoubtedly checked operations at several of the principal establishments, for while shipments to that country were continued makers had some degree of confidence in keeping their mills and forges going. Home contracts are slow in coming forward, and it is evident that until there is a little more animation in the money market buyers will restrict their operations to actual requirements. The exports last month reached 9645 tons, which is a tolerably good return, taking into consideration the time of the year. For common qualities of pig-iron there is only a limited demand, but brands of repute are in fair request. Of Swedish iron considerable quantities have lately arrived, but as the season is now about closing prices will, in all probability, be maintained. In Scotch pig-iron the market has been dull during the week, and prices have declined, the last price received from Glasgow being 53s. 6d. cash. 53s, 6d, cash

LEAD .- The demand has continued only limited during the week,

and prices have remained without alteration. -No activity has been manifested either in English or fo Sales of Straits in limited quantities continue to take place at 89l. 10s. to 90l.; but holders generally are indisposed to part with

their parcels at present prices. SPELTER.—The market for this metal has remained very quiet during the week, the price for parcels on the spot being 211. 15a., at which sales have been effected

TIN-PLATES command a moderate sale, and quotations are rather in favour of buyers.

STEEL and QUICKSILVER without alteration.

MIDDLESBOROUGH, Nov. 22.—The "Iron Trade Review" states:— There is no improvement to record in the state of the Northern iron trade. Notices of reduction in wages have been accepted by a considerable number of men at Darlington, and no resistance on the part of the men generally is expected. The pig-iron market is a trade. siderable number of men at Darlington, and no resistance on the part of the men generally is expected. The pig-iron market is a trifle weaker. Makers are in future going to quote eash prices for pig-iron; these are now, No. 1, 46s. 6d.; No. 3, 43s. 6d.; No. 4, 42s.; mottled, 41s. 6d.; and white, 41s., nett cash, or 1s. per ton extra for four months' bill.

LIVERPOOL, Nov. 21.-Messrs, Knowles, Gorst, and Riso write :-Copper: Business has been done to a moderate extent, but there is no new feature in the market. Speculation here is, and for a long time has been, quite dormant. Chili bars have been done at 69% on the spot, and 69% 15s. for distant arrival; ores and regulus, 14s. to 14s. 3d.—Tin is firm, at 90% for Straits; English sells a little blow list prices, though smelters are bare of stocks, and a large consumption goes on at the tin-plate works. Stocks of foreign tin steadily decline, and shipments to Europe of late are trifling, being from Singapore and Penang to London only 166 tons in the five weeks ending October 3, which is the latest date we have.

THE COPPER TRADE.—Messrs. Vivian, Younger, and Bond (Nov. 22) write:—The Liverpool market for Chili produce has been maettled and uncertain. Transactions have been confined within very narrow limits, in consequence of the divergence of views held by buyers and sellers. Some parest bags to arrive up to February have found buyers at 691. Los. and 701. which must be considered speculative prices. There are no cash sales of any importance to record. About 800 tons of ore and regulus have been sold at 48.3. The market for English copper is extremely dull, with sellers of tough 48.3. The market for English copper is extremely dull, with sellers of tough 48.3. London spot and best selected at 774, and business would have been possible acron somewhat lower prices. Nothing whatever passing in fine foreign.

The MINING SHARE MARKET has participated in the general dulness this week, and the business transacted has been of a very limited character, and without much change in quotations. The standard for copper ore was up 21. 8s. on Thursday, which is a very favourable feature. The shares mostly dealt in since our last have been Prince of Wales, Chontales, Maes-y-Safn, West Chiverton, Chiverton Moor, Wheal Seton, Wheal Grenville, Retallack, Wheal Basset, North Treskerby, Tineroft, North Crofty, Clifford Amalgamated, East Gunnislake and South Bedford, Great Laxey, Marke Valley, Great Vor, South Frances, East Russell, and a few other mines. Chontales shares have fluctuated very much during the week, from 1 to 1½ dis. On Thursday they rose to 3½, 4, buyers (41, 10s. paid), and leave off 3½ to 3½. The advices by the Douro, dated Oct. 8, state that some fatal cases of cholera had occurred and consequently native labour was still scarce; but, as no cases had occurred since Sept. 29, it was hoped the disease was passing away. No remittance of gold, as it was thought better not to break up the cups for September month; but it is stated that the next remittance will be proportionately increased. The general state of the mines is the same as last reported. Prince of Wales shares kept firm, at 52s. 6d. to 53s. 6d., up to Thursday, when they declined to 47s., and leave off 50s. to 52s.; at the meeting, full particulars of which will be found in another column, the accounts showed a profit of 619l, 18s. 4d., and a balance of assets over liabilities of 2486l. 3s., and a dividend of 1s. per share was declared. The report was of a very favourable character. Since the meeting a small branch, 2 in. wide, has been met with in the 55 cross-cut north, underlying north 1 ft. in a fathom. To the north of this branch the ground is more mineralised than the agents have ever seen it before; and, as its been Prince of Wales, Chontales, Maes-y-Safn, West Chiverton,

very favourable character. Since the meeting a small branch, 2 in, wide, has been met with in the 55 cross-cut north, underlying north 1 ft. in a fathom. To the north of this branch the ground is more mineralised than the agents have ever seen it before; and, as it is letting out a great deal of water, the north lode, so long looked for, may not be far off. Clifford Amalgamated, 6 to 6; Forak Walls, to \( \frac{1}{2} \) to 2\( \frac{1}{2} \). East Caradon, 5\( \frac{1}{2} \) to 6; East Caradon, 5\( \frac{1}{2} \) to 6; East Caradon, 2 to 2\( \frac{1}{2} \). Great Retallack, 3 to 3\( \frac{1}{2} \); the No. 1 lode, in the 20 south is worth 3 cwts., and the 20 north 3 cwts., per fathom; lode in rise from No. 2 lode is worth 15 cwts. East Gunnislake and South Bedford, 30s. to 35s.; Fast Lovell, 8 to 8\( \frac{1}{2} \); East Russell, 33s. to 35s.; Frontino and Bolivia, 17s. 6d. to 20s.; Great Laxey, 17 to 18; Great South Tolgus, \( \frac{1}{4} \) to \( \frac{1}{2} \); Herodsfoot, 38 to 40; Marke Valley, 6\( \frac{1}{4} \) to 6\( \frac{1}{2} \); New Seton, 50 to 60; North Chiverton, 4\( \frac{1}{4} \) to 6\( \frac{1}{2} \); North Crofty, 2\( \frac{1}{4} \) to 3; North Downs, 17s. 6d. to 20s. South Basset, 5 to 7\( \frac{1}{2} \); the 75, east of crosscut, on Teague's lode, is worth 8\( \frac{1}{2} \), Per fathom, Maesey-Safe, 20 to 31; West Drake Walls, 6s. to 8s.; North Treskerby, 33s. to 35s.; Providence Mines, 29 to 30; South Frances, 31 to 33; Tincroft, 13\( \frac{1}{2} \); West Basset, 30s. to 35s.; West Caradon, 6\( \frac{1}{2} \) to 7\( \frac{1}{2} \); West Chiverton, 5 to 5\( \frac{1}{2} \); West Chiverton, 6\( \frac{1}{2} \); Other fraces of Wales, 10s. to 12s. 6d.; West Seton, 180 to 190; West Wheal Kitty, \( \frac{1}{4} \) to \( \frac{1}{2} \); Frontine and the 60 east, 200, per fathom.

Wheal Kitty (St. Agnes), 2\( \frac{1}{4} \) to 3\( \frac{1}{4} \); to 10\( \frac{1}{2} \); for fathom; and the 70 east, 200, per fathom.

with an improved appearance; two stopes in the 86 west, 50L per fathom; the winze below the 70, from 15L to 20L per fathom; and the 70 east, 20L per fathom.

Wheal Kitty (St. Agnes), 2\frac{1}{2} to 3\frac{1}{2}; at the meeting a dividend of 425L 10s., or 2s. per share, was declared. The prospects of the mine continue good, and the manager states he will sell for the ensuing quarter 47 tons of tin. South Condurrow, 12s. to 14s.; the mine continues to improve, and the lode in the 50 is valued at 15L to 20L per fathom. Gawton Copper, 3\frac{1}{4} to 3\frac{1}{2}; the south part of the lode, in the 70 fm. level cross-cut, is in a fine lode of black oxide and yellow copper ore, 5 feet wide, and the cross-cut will be continued to intersect the north part. The 60 east is worth 3 tons, a winze 4 tons, the winze below the 50 fm. level 8 tons, a winze in the back of the 50 fm. level 6 tons, and the 50 west 5 tons. The next sampling is expected to exceed the last. Devon Great Consols, 420 to 430; the directors have declared a dividend of 7L per share (7168L), out of profits made in July and August last, after payment of which there remains in hand a balance of 18,266L 18s. 11d. in cash and ore bills. Can Brea, 25 to 27\frac{1}{2}. Chiverton Moors, after declining to 5\frac{1}{2} sellers, rose to 6, 6\frac{1}{2}; no call, we understand, was made at the meeting, and the mine looks well.

The Market for Mine Shares on the Stock Exchange has been very

to 6, 61; no call, we understand, was made at the meeting, and the mine looks well.

The Market for Mine Shares on the Stock Exchange has been very quiet during the week, but the tone has been more favourable than in the railway and other markets. British mines command a fair share of attention, and foreign mines are steady. Don Pedro, 8t. John del Rey, and Chontales, have been most dealt in. A call of 10s. per share has been made in the latter company, and the advices received to-day announce no fresh features at the mines, and no further deaths had occurred for about six days prior to the despatches being sent off. No gold has been forwarded, but it is anticipated that a remittance will be made by the next mail; price 1½ to 1 dis.; 8t. John del Rey, 59 to 61; Don Pedro, 2 to 2½ prem.; Anglo-Brazilian. par to ½ prem.; Anglo-Italian, ½ to ½ prem.; Pestarena, ½ dis. to ½ prem.; Frontino and Bolivia, 17s. to 19s.; Rossa Grande, ½ to ½; Port Phillip, 1 3-16ths to 1 5-16ths, ex div.; Central American, ½ dis. to par; Scottish Mines, 1 to 1½; Cape Copper, ½ dis. to ½ prem.; Kapunda, ½ to ½, ex div.; Yudanamutana, ½ to 1. In British mines, West Chiverton has further improved in the bottom level, price 70 to 71. Chiverton Moor, 6 to 6½; no call was made at the meeting. Chiverton shares are unaltered, at 5 to 5½; Prince of Wales shares have recovered to 50s., 52s. Carn Brea shares have been enquired for, at 25 to 27; the prospects of the mine are reported as better than at anytime for years past. New Seton shares have risen to 52½, 57½; West Seton, 165 to 170; Seton, 97½ to 100; Great Vor, 17½ to 18; East Caradon, 5½ to 6; Devon Great Consols, 425 to 435; North Chiverton is favourably reported on, price 4½ to 4½; North Wales Mines are more enquired for. The Maes-y-Safn Company have declared a dividend for the quarter of 20s.; price 28 to 30. Minera, 170 to 180, ex dividend. Westminster (Limited) is opening up well; the next sale of ore will/be not less than 50 tons, with every prospect of gradual and steady increase.

A

dual and steady increase.

At Truro Ticketing, on Thursday, 4033 tons of ore were sold, realising 17,7934. 2s. 6d. The particulars of the sale were:—Average standard, 1134. 8s.; average produce, 6\(\frac{3}{2}\); average price per ton, 4l. 8s. 6d.; quantity of fine copper, 254 tons 15 cwts. The following are the particulars of the sales during the past month:—Date. Tons. Standard. Produce. Per ton. Per unit. Ore copper. 0ct. 17. 3710 ... £115 50 ... 6\(\frac{5}{2}\) ... £4 7 0 ... 14s.1\(\frac{1}{2}\) d. ... £70 14 0 ... \$21 1496 ... 102 0 0 ... 8\(\frac{1}{2}\) ... \$18 0 ... 13 11 ... 69 10 0 ... 31... 2073 ... 101 9 0 ... 8 ... 3 11 0 ... 11 0 ... 60 14 0 ... 20 14 0 ... 11 11 0 0 0 ... 8 ... 3 11 0 ... 11 0 ... 60 14 0 ... 21 ... 4033 ... 11 18 80 ... 60 14 0 ... 21 ... 4033 ... 11 18 80 ... 60 15 0 ... 60 17 0 ... 60 1 17s., and in the price per ton of ore about 1s.

IRISH MINE SHARE MARKET .- The tone of our market for speculative securities has throughout the week been devoid of animation, and Mining Shares suffered neglect in common with all others. General Mining Company for Ireland was, in number of transactions, most dealt in at the previous quotation of 2l. per share—once touching an improvement on this of 2s, 6d, for account, and leaving off in ,22)

dul.

request at these quotations. Wicklow Copper shares were also repeatedly dealt in, but at a reduction of 20s. per share on last week's price, having changed hands at 17t. (2t. 10s. paid), leaving off buyers. Mining Company of Ireland shares were enquired for at 16t. 10s. (7t. paid), but holders are firm at 17t. per share. Connorree shares command 6s. 9d. for cash, and 7s. 3d. for the end of January. Carysfort and other shares were passed over.

The directors of the Devonshire Great Consolidated Copper Mining The directors of the mostling, held yesterday, declared a dividend of 71682, many, at their board meeting, held yesterday, declared a dividend of 71682, mig 71, per share, arising from profits on sales of copper ore sampled in the mid-held of July and August last. After payment of the same there remains is made of July and August last. After payment of the amount held in the same of 18,2661, 188, 11d. in cash, ore bills not at maturity, and read from a pupilicable to the general purposes of the company.

At Wheal Kitty (St. Agnes) meeting, on Tuesday (Mr. T. Reece in sechal), the accounts showed a profit on the three months' operations of sechall), the accounts showed a profit on the three months' operations of sechall, the accounts showed a sprofit on the three months' operations of sechall, and a balance of assets over liabilities of 850l. 8s. 4d. A dividend 4491, 10s. (2s., per share) was declared, leaving 420l. 18s. 4d. to be carried for and to the credit of the next account. Details in another column.

At Alderley Edge Mining Company general meeting, held at the thes, on Oct. 31, a further dividend of 5s, per share was declared, making the tail amount of dividend 91, 2s, 8d, per share.

At the Prince of Wales Mine meeting, on Tuesday (Mr. J. Y. Watson, F.G.S., in the chair), the accounts showed a credit balance of 24861.38. The profit on the three months' operations amounted to 619. 18s. 4d., notwith-standing the withings were impeded for a period of something like six weeks, standing the wall of the profit of the prof

by which it is estimated the returns during the quarter were reduced by at east 10 tons. Details in another column.

At West Basset Mine meeting, on Wednesday, the accounts showed Balance carried over from last meeting, 5811. 19s. 1d.; costs for August and September, 19371. 7s.; advance on tribute, 1502.; royalty, 1284. 18s. 10d.; sundries, 30l. 0s. 2d.—28284. 0s. 1d. Copper orea sold, 8214. 19s. 1d.; tin orea sold, 1341. 18s. 3d.; advance on tribute, 1504.; calls received, 6064.; balance, 1654. 8s. 9d.—28284. 0s. 1d.—Mr. Finch, the solicitor, attended the meeting, and communicated the further steps that had been taken in reference to the assessment of the damages to be paid by the South Frances adventurers, and that he expected very abortly to receive the Judge's Order to proceed with the reference.

At North Wheal Chiverton meeting, to be held on Thursday, the accounts will show a credit balance of 31584. 5s. The average cost of driving ierels for the three months was 3t. 18s. per fm., and the average earnings of the ingrowmen was 3t. 48s. per man per month.

At Wheal Owles meeting, on Nov. 15, the accounts for July, August, and September showed a debit balance of 49984. 9s. 5d. The tin sold (less dues, 128th—1904. 14s. 3d.) realised 4577t. 1s. 5d. Work performed during the quarter: Driven in levels, 148 fms. It. 31n.; sunk in shafts and winses, 22 fms. 0f. 5p. in 1800 to 1

private in letters, at the for tin; and 22 pitches on tribute. They have about 190 tons of the unsold.

At Carn Brea Mine committee meeting, on Nov. 12, there was a possible of nearly 4002, shown upon the two months ending August. The report is perhaps, the most satisfactory presented for years. On the Highburrow lode alone there are three winzes and two ends, worth for tin and copper from 4501, to 5001, per fun, in the aggregate. Other parts of the mine have improved, and are still improving. The Druid's part is opening out well. With a continuance of the present energetic mode of working the mine, as promoted by Mr. Francis Proy, the adventurers need not fear but Carn Brea will, before long, with an advance in tin, resume paying dividends. The sett is very extensive, and there is a great deal of profitable unexplored ground to open. At the next bi-monthly committee meeting it is expected their wolld be a much larger credit balance. A letter was read from Mr. F. Pryor recommending the tendering for the materials required for the mine. The committee expressed their concurrence in such views, and for a commencement of the system directed that tenders be invited for all the stamps work of the mine for six or twelve months, and that at the next committee meeting lists be produced of the several kinds of materials required for the use of the Mine, and estimates of the quantities required for six or twelve months. Mr. Pryor also requested the directors to convene a meeting to deal with the financial position of the company, and to make such call as may be necessary to place the mine in an independent position.

At New Chiverton Consols Mine meeting, yesterday (Mr. F. Handley in the chair), a call of 2s. per share was made. Captain Evans was appointed agant. It was resolved to divide the mine in 1500 shares, the whole of which have been taken up.

agent. It was resolved to divide the mine into 1500 shares, the whole of which have been taken up.

At the Poldice Mines meeting, on Tuesday, the accounts showed a debt balance of 10541. 9s. 4d. It was resolved that the mines be carried on upon the Cost-book System, and divided into 2000 shares. Sir William Williams, Bart, was elected the uppaid purser and treasurer, and an unpaid committee of management was also elected. Major Bickford was appointed Chairman, and Messrs. G. A. Michell and W. H. Tregoning the Vice-Chairmen of the committee. That for the payment of the purchase-money of these mines, hairans and materials amounting to 6300t., a call of three guineas per share be made; and, for the payment of the debit balance of 10541, a call of 10s. per chare be made.

made; and, for the payment of the debit balance of 1034., a call of 10s. per bare be made.

At Otea Copper Mining Company meeting, on Nov. 28, Messrs. T. Stanton, J. V. Smedley, J. H. Durham, Parke Pittar, and J. D. Ronaldson will be nominated liquidators to wind-up the company.

The Bank of England return for the week ending on Wednesday crening showed in the ISSUE DEPARTMENT a decrease in the "notes issued" of 53,700l, which is represented by a corresponding decrease in the "coin and builton" on the other side of the account. In the BANKING DEPARTMENT there is shown a increase in the "other deposits" of 362,1016., and in the "rest" of 12561., and in the "seven day and other bills" of 29.8821.; together, 20,1881.245,5011.; and adding thereto the decrease of 16561. in the "other securities" on the asset side of the account, there is shown an increase in the total reserve of 247,1571.

On the Stock Exchange there has been an active demand for Mining Shares during the week. The following prices were officially recorded in British Mining Shares:—Great Laxey, 17\(\frac{1}{6}\), 17\(\frac{1}{6}\); Great Wheal Vor, 18; North Wheal Crofty, 2\(\frac{1}{6}\), 2\(\frac{1}{6}\); Devon Great Consols, 427\(\frac{1}{6}\), 430; East Caradon, 6\(\frac{1}{6}\).—In Colonial Mining Shares the prices were:—Cape Copper, 6 15-16ths, 7\(\frac{1}{6}\), 13-16ths, 1\(\frac{1}{6}\); Yudanamutana, \(\frac{1}{6}\), 1\(\frac{1}{6}\), 13-16ths, 1\(\frac{1}{6}\); On Pedro, 2\(\frac{1}{6}\), 2\

COAL MARKET .- The fresh arrivals this week number 120 ships. COAL MARKET.—The fresh arrivals this week number 120 snips. The cold, stormy weather has greatly increased the demand for house coals, and a large business has been done at 6d. per ton advance on last week's prices. Hartley's have also been in fair request, at an advance of 3d. Hetton Wallsend, 22s.; Braddyll's Wallsend, 29s. 6d.; Eden Main, 19s. 6d.; Riddell's Wallsend, 19s.; Holywell Main, 18s. 6d.; West Hartley, 18s. 6d.—Unsold, 18 carges: 5 ships

at sea.

EXPORTS OF COAL.—By the Monthly Circular of Messrs, Higginson, Liverpool, we learn that the quantity of coal exported in Oct. was 986,862 tons, against 859,578 tons in the corresponding month of 1866, showing an increase of 127,274 tons. The particulars are—From the Northern Ports, 461,719 tons; Yorkshire, 36,642 tons; London, 9761 tons; Liverpool, 92,894 tons; Severn Ports, 310,429 tons; and Septil Ports, 75,407 tons. The increase was—Northern Ports, 59,792. Scotch Ports, 75,407 tons. The increase was—Northern Ports, 59,722 tons; London, 4006 tons; Liverpool, 28,976 tons; Severn Ports, 22,187 tons; Scotch Ports, 17,504 tons. The decrease—Yorkshire, 5121 tons. Total, Jan. to Oct., 8,282,087 tons; same period last year, 8,018,009 tons; showing an increase of 264,078 tons.

CHONTALES.—The advices received by the West India Mail inform the directors that, although several fatal cases of cholera have occurred at the mines, it would appear the disease is passing away, as no case occurred between Sept. 29 and Oct. 8, so that it may be expected that the natives will soon return to their employment. The company has been peculiarly unfortunate in the hindrances that have prevented the effective development of the mines, and the making of those returns which, from the reports presented at the last meeting, were in course of realisation. There is nothing whatever in the reports just received that in any way affects the intrinsic value of the mines; therefore, it is to be hoped that the speedy acquisition of labour will rapidly open out the properties in a satisfactory manner. The mines must be in a position very similar to what they tion of labour will rapidly open out the properties in a satisfactory manner. The mines must be in a position very similar to what they were when Mr. Truran left Nicaragua: and those who attended the last meeting, or perused its details, will recollect the strong opinion Mr. Truran expressed upon their productive character, when he affirmed that the samples, which he himself broke, were a fair average of the ore at the various points of operation. It should be remembered that, until the levels are sufficiently opened out to enable the productive parts of the lodes to be worked, the mills must necessarily be supplied with the poorer character of stuff obtained from the shafts and levels, some of which the mills now appear to be grinding. No remittance of gold has come to hand, as it was thought better not to break up the cups for September, but it is stated the next remittance will be proportionably increased. The next mail, it is hoped, will bring satisfactory intelligence.

FRONTINO AND BOLIVIA (SOUTH AMERICAN) GOLD MINING COM-PANY.—The Douro brings the advices from Mr. Rouch, the com-pany's manager, which ought to have arrived by the last mail. The intelligence communicated is of a most favourable character. The gold (some 1200 ozs.) is expected next week by the regular West In-dia packet.

Contract for Coals for Gibraltar.

CONTRACT DEPARTMENT, ADMIRALTY, SOMERSET HOUSE. THE COMMISSIONERS for Executing the One of Lord High Admiral of the United King.

O'clock, they will be READY to TREAT with such persons as may be willing to CONTRACT for SUPPLYING and DELIVERING into store at Her Majesty's Naval Yard at Gibraltar,

ELEVEN THOUSAND FIVE HUNDRED TONS OF SMOKELESS SOUTH WALES COALS,

WALES COALS,
For the service of Her Majesty's steam-ships and vessels.
The coals to be shipped as follows:—1600 tons thereof by the 31st January, 1868; 1500 tons more thereof by the 28th February, 1868; and the remainder thereof in line equal monthly proportions.

A form of the tender and conditions of contract may be seen in the lobby of the Storekeeper-General's Department, Admiralty, Somerset House. No tender will be received after Two o'clock on the day of treaty, nor will any be noticed unless the party attends, or an agent for him duly authorised in writing.

Every tender must be addressed to the Secretary of the Admiralty, and bear in the left-hand corner the words "Tender for Coals for Gibraltar," and must also be delivered at the Department of the Storekeeper-General, Admiralty, Somerset House, accompanied by a letter signed by two responsible persons, engaging to become bound with the person tendering in the sum of £25 per cent.

By order, ANTONIO BRADY,

Registrar of Contracts and Public Securities.

Contract Department, Admiralty, Somerset House, Nov. 19, 1867.

Tower—Sale of Stores.

BY ORDER OF THE SECRETARY OF STATE FOR WAR.

MR. GEORGE SPILLMAN WILL SELL,
MR. GEORGE SPILLMAN WILL SELL,
Monday, 2d of December, 1867, at Eleven o'clock in the
forenoon precisely, the following STORES:
TENTS.
ACCOUTREMENTS,
HAVERSACKS.
DUBBING.
FIRE ENGINES.
FIRE ENGINES.
IRON.
May be viewed at the Tower from Ten to Four o'clock, the three days pre-

HAVERSAURS.
DUBBING.
May be viewed at the Tower from Ten to Four o'clock, the three days previous to the day of sale, and catalogues may be had at the War Office, Pail Mail; the Tower; and Royal Arsenal, Woolwich.

SLATE SLABS.

TENDERS WANTED for SUPPLYING about ONE HUNDRED TONS ANNUALLY of 1 in., 1½ in., and 1½ in. SLATE SLABS, planed on both sides, and sawn on edges. State lowest prices for the various lots, sizes, and qualities, and how soon a cargo could be shipped, to—
ALEXAXDER YOUNG, Manager STONE DEPOT, BOTHWELL STREET, GLASGOW.

COLLIERY MANAGER.—WANTED, for a small COLLIERY AND COKE WORKS, an EFFICIENT MANAGER, to take the superintendence of the same. He will be REQUIRED to UNDERTAKE the SALES of COALS and COKE, both inland and shipping. Parties acquainted with Newport and its district (where his head-quarters would be) would be preferred. Application, with testimonials and salary expected, to be made to the Secretary of the Hollybush Coal and Coke Works Company (Limited), No. 8, August friars, London, E.C.

SECRETARY.—WANTED, a GENTLEMAN, of first-rate business qualifications and strict integrity, having a sufficiently numerous connection to enable him to aid very materially in the floating of an exceedingly VALUABLE and EXTENSIVE MINING PROPERTY in the WEST OF ENGLAND, where a pretty large capital will be required. Address, "X. Y. Z.," MINING JOURNAL Office, 26, Fleet-street, London...

PARTNERSHIP.—An EXCELLENT OPPORTUNITY is offered a PRACTICAL ENGINEER, to enter u,on an ironfounder and machinist's business, which has been carried on in a country town for many years, and where the present proprietor is willing to give up in favour of the chief of his star, leaving the engines, machines, and plant in, at a valuation to be included in rent, with the option of purchase after three years. A partner is wanted with £1000 or £1500. , Mr. JOHN DAVIS, 17, Northgate-street, Aberystwith, Mid-Walds.

TALY.—An ENGLISH GENTLEMAN, a long resident in Italy, possessing all the necessary influence and means to conclude business, will be happy to ACT for a ARMY or NAVY CONTRACTOR, or for any party/desirous of being well represented.

Address, in the first instance, with full name and particulars, to "ENGL" MINING JOURNAL Office, 26, Fleet-street, London, E.C.

TO MERCHANTS, ACCOUNTANTS, AND OTHERS.

WANTED, by the ADVERTISER, a SITUATION as CLERK.
Well qualified, and can be highly recommended. Salary expected very

anderate. Age 26 years.
Apply to "Trebo," Post Office, Neath. MINES AND QUARRIES.—A GENTLEMAN, who has had

M INES AND QUARKIES.—A GENILEMAN, Who has had great experience in the management of mines and slate quarries, is OPEN to an ENGAGEMENT as MANAGER or SECRETARY to a first-class company. He can level, survey, and understands the erection of machinery. First-class testimonials.

Address, "X. Y. Z.," care of Mr. Robert Jenkins, St. George's Cottage West Hill. Torquey.

A GENTLEMAN, having a LONG and EXTENSIVE EXPERIENCE in the MANAGEMENT of MINES in CORNWALL, in OPEN to an ENGAGEMENT ABROAD as GENERAL MANAGER or SUBER INTENDENT of MINES. Unexceptionable references.

Address, "F. G. S.," Post Office, Truro.—August 20, 1867.

ANTED, by a gentleman in the Iron Trade, a GOOD AGENCY for the SALE of FIG IRON in the SOUTH STAFFORD SHIRE DISTRICT.
Address—"P. E.," Metal Broker, Exchange, Birmingham.

COLLIERY, SOUTH WALES.—TO BE SOLD, BY PRIVATE CONTRACT, an UNDIVIDED SHARE of an OLD-ESTABLISHED COLLIERY, in good working order, and yleiding a profit of 20 per cent. per annum. The purchaser may become either a dormant or an active partner, at his option. For full particulars and price, apply to DAVID LLEWELLIN, Esq., Marchiagon, Glanwern Offices, Pontypool.

TO GRANITE MERCHANTS.—FOR SALE, the NORTH HAYTOR GRANITE QUARRY, situated a mile from the Bovey Railway Station and ten miles from the port of Teignmenth. The GRANITE is in masses of very large dimensions, and of superior quality.

For particulars and orders to view, apply to Mr. HENRY BLANCHFORD, where broker and Accountant, Teignmouth.

LANFAIR GREEN AND BLUE SLATE QUARRY, COMPANY (LIMITED).—Manager, T. HARVEY, Esq.—TO BE SOLI FORTY SHARES, at £1 per share. No calls.—Address, "A. B.," MANA JOHNAL Office, 26, Fleet-street, London, E.C.

FOR SALE, a PORTABLE STEAM ENGINE of 25 horse power. Winding gear to order to suit circumstances. SECOND-HAND PORTABLE STEAM ENGINES, with new MORTAR MILLS, SAW TABLES, &c., on advantageous terms.

Apply to Messrs. Barrows and Carmichael, Engineers, Banbury, Oxog.

O'N SALE, THREE EGG-END BOILERS, 36 ft. long by 6 feet diameter, in EXCELLENT CONDITION, and will work up to 60 lbs. pressure. Apply to Mr. WILLIAM CLARK, 432, Rochdale Road, Manchester.

CHONTALES GOLD AND SILVER MINING COMPANY CHONTALES GOLD AND SILVER MINING COMPAINT

(LIMITED).—Notice is hereby given, that the directors have this day made a CALL of TEN SHILLINGS PER SHARE, payable at the Imperial Bank, Lothbury, ou or before the 23d day of December, 1867.

The Transfer-books will be closed from the 20th to the 25th of November, both days inclusive.

J. JAMESON TRURAN, Secretary.

1.85, Gresham House, Old Broad-street, London, E.C., Nov. 18, 1867.

1.85, Gresham House, Old Broad-street, London, E.C., Nov. 18, 1867.

Standard of corresponding sale last month, £115 6 0.—Produce, 6\%.

Standard of corresponding sale last month, £115 6 0.—Produce, 6\%.

A NGLO-MEXICAN MINT COMPANY.—Notice is hereby given that a DIVIDEND will be PAYABLE at this office on and after MONDAY, Dec. 2 next; claims to be made (printed forms of which may be obtained at the office) two clear days previous to payment. Attendance 11 to 3 o'clock.

No. 4, Finsbury-place, South, Nov. 18, 1867.

A NGLO-MEXICAN MINT COMPANY.—Notice is hereby given, that all HOLDERS of SHARE CERTIFICATES are required to deposit the same in this office at the time of making their claim for the DECEMBER DIVIDEND, in order that a new series of dividend coupons may be attached thereto. A receipt will be given at the time of delivery, to be afterwards exchanged for the said certificates when ready to be returned, whereof due notice will be given by public advertisement.

ALFRED GODFREY Secretary

No. 4, Finsbury-place South, Nov. 18, 1867.

STEAM-BOILERS made by WILLIAM WILSON, LILYBANK
BOILER WORKS, GLASOOW, on the most improved principles, for home
and export. All boilers made of the best material and workmauship, proved
and warranted tight under a high pressure, and delivered at any railway station or shipping port in the kingdom at moderate rates. Lithograph of boilers
forwarded post-free on application.

MR. THOMAS SPARGO, STOCK AND SHAREDEALER, 224 & 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.G.

THE IMPERIAL SILVER QUARRIES COMPANY (LIMITED). Mr. SPARGO has for sale a number of Debenture Bonds, bearing 10 per cent. Interest per annum, in the above undertaking. These Bonds are redeemable in 1869, and the estimated net profit upon the first year's working is \$250,000. Full particulars on application personally, or by letter. Gresham House, Old Broad-street, London, E.C.

CENTRAL AMERICAN RAILWAY COMPANY.—An offer is solicited for First Mortgage Bonds of £200 each in the above undertaking. Apply to Mr. THOMAS SPARGO, Gresham House, Old Broad-street, London, K.C.

WANTED TO PURCHASE, FIVE HUNDRED SHARES in the OLD WESTMINSTER MINE, at £4 10s.
Address, "M. J.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

TESSRS. KEANEAND CO MINING AGENTS. AND SHAREDEALERS. 90, CANNON STREET, LONDON, E.C., and BRIDGEWATER CHAMBERS, BROWN STREET, MANCHESTER.

		LE	AD C	RE	S.			
Date				Am				Purchasers.
Nov.	7-Cardigans	hire 30		£11	8	0		Sims, Willyams, & Co.
	5-Great Lax	ey100		22	5	6		R. Michell and Son.
1	9-Stiperston	68 65		12	1	0		Sims, Willyams, & Co.
	21-Frank Mil	ls100		13	2	0		Bury Port.
						_	_	

COPPER ORES AND REGULUS ditto 16—Chile

COPPER ORES.

ditto

Sold at LIVERPOOL, from Nov. 1 to Nov. 14.

Sampled Nov. 6, and sold at the Royal Hotel, Truro, Nov. 21.

Mines.	Tons		ice.		Mines.		Fon		lce	
	t Consols130	£5	3	6	Bampfylde		51	 £3	2	-
ditto	129	4	22.	6	Wheal Friendsh			2	4	
ditto	126	5	5	6				4	17	-
ditto	•••••123	4	11	6				12	10	-
ditto	122	4	14	0	West Maria & F			2	4	-
ditto	******120	5	7	6				1	13	-
ditto	******119	3	7	6				4	19	-
ditto	*******117	 4	13	()	Wheal Emma			2	5	-
ditto	*******109	 3	7	6				4	4	-
ditto	****** 98	 4	14	6				5	2	-
ditto	***** 95	3	9	0	ditto		(3.)	 8	18	-
ditto	****** 85	4	18	6	East Russell			3	17	-
ditto	80	8	19	0				8	7	-
ditto	******* 72	5	4	6				 6	1	-
ditto	*** **** 47	 3	8	0	Devon and Corn	wall	53	 4	17	1
ditto	46	 3	7	6	ditto		48	 3	18	-
ditto	******* 40	 12	15	6				 1	9	-
ditto	****** 85	 k	6	6	Prince of Wales.		48	 5	11	1
ditto	16	 5	3	6	ditto		37	 5	16	-
Marke Vall	ey 90	 2	14	6	ditto		35	 6	4	1
ditto	89	 4	18	6	Gunnislake (Clit	ters).	39	 5	2	-
ditto	******* 85	 3	2	6	ditto		86	 4	18	-
ditto	****** 60	 4	13	6	ditto		18	 0	17	-
ditto	41	 1	14	0	Bedford United.		44	 3	13	1
ditto	******* 40	 2	17	6	ditto		37	 3	0	1
ditto	88	 2	3	6	Belstone Mine .		34	 8	9	1
Hingston D	own 96	 3	14	6	ditto		24	 3	7	-
ditto	86	 3	0	0	New East Russe	11	49	 6	2	1
ditto	84	 2	19	6	Caradon Consols		35	 4	7	1
	on 87	3	6	6				 2	13	
ditto	86	2	17	6	Molland			3	6	
ditto		 2	7	6	Kelly Bray			2	16	-
Bampfylde		 11	14	0	Collacombe		14	 1	17	-
ditto	60	11	12	0	Fursdon		12	 Ď.	19	-

| TOTAL PRODUCE. | Property | Pro

TOTAL PRODUCE.

COMPANIES BY WHOM THE ORES WERE PURCHASED. | Companies | Structure | Companies | Comp 

Copper ores for sale at Tabb's Hotel, Redruth, on Thursday next.—Mines and parcels.—South Caradon 541—Clifford 494—North Treskerby 310—Wheal Rose 220—Glasgow Caradon 186—Phœnix 162—Craddock Moor 131—West Caradon 113—Toldice 46—Pedn-an-drea 13—Wood Mine 2,—Total, 2218 tons.

Copper ores for sale at Tabb's Hotel, Redruth, on Thursday week.—Mines and parcels.—Wheal S-ton (Pendarves) 831—Clifford 670—West Seton 673—South Crofty 360-West Tolgus 387—East Pool 214—Wheal Basset 177—Cara Camborao 112—Dolcoath 52—Emily Henricita 38—East Basset 21—Tywarnhayle 10,—Totai, 3395 tons.

#### WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS, MINING AGENTS, STOCK AND SHARE DEALERS, &c. 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

I, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

MESSES. WATSON BROTHERS beg to notify to their friends and the public generally that Mr. W. H. Cuell has retired from the firm, in accordance with a clause in the deed of partnership; and having also sold to the remaining partners all his right, property, and interest in the business hitherto carried on by J. Y. Watson, F. G. S., Napoleon Frederick Watson, and himself, under the name of "Watson and Cuell," the same will be carried on in future by Mr. J. Y. Watson and Mr. N. F. Watson, under the designation of "WATSON BROTHERS," and they take this opportunity to return their most sincere thanks for the great patronage bestowed and confidence reposed in the firm for 24 years, and to assure their friends and ellents it will be their carnest endeavour to merit a continuance of both.

Messes. WATSON BROTHERS have made arrangements for continuing their weekly Circular, which has had a large circulation for many years, to the columns of the Mining Journal, their special reports and remarks upon mines and mining, and state of the share market, will in future appear in this column. In the year 1843, when Cornish mining was almost unknown to the general public, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. J. Y. Watson, F. G. S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (iscond series, 1863), "The Progress of Mining," with statistics of the Mining laterest, annually for 21 years, &c., &c. In the Compendium, published in 1843, Mr. Watson was the first to recommend the system of a "division of manil risks in several mines, ensuring success in the aggregate," and Messrs. Watson Brothers have always a selected list on hand. Perhaps at no former period in the annals of mining and share dealing than there is a tpresent; and, from the lengthened experience of Messrs. Watson Brothers and freme or the market, as they have for s

their own Circular.
. WATSON BROTHERS transact business in the purchase and sale of

Messrs. WATSON BROTHERS transact business in the purchase and sale of mining shares, and other securities, payments of calls, receipt and transmission of dividends, obtaining information for elients, and affording advice, to the best of their knowledge and judgment, based on the experience of more than 30 years active connection with the Mining Market.

Messrs. WATSON BROTHERS also tuform their clients and the public that they transact business in the public funds, railway, docks, insurance, and every other description of shares dealt in on the Stock Exchange.

Messrs. WATSON BROTHERS are also daily asked their opinion of particular mines, as well as to recommend mines to invest or speculate in, and they give their advice and recommend mines to the best of their judgment and ability, founded on the best practical advice they can obtain from the mining districts, but they will not be held responsible, nor subject to blame, if results do not always equal the expectations they may have held out in a property so fluctuating as mining.

sequal the expectations they may have able to the fining.

sers. WATSON BROTHERS having agents and correspondents in all the
ng districts, and an extensive connection among the largest holders of mining
erry, have the more confidence in tendering their advice on all matters reig to the state and prospects of mines and mining companies, and are able
pply shares in all the best mines at close market prices, free of all charge

to supply shares in all the best mines at close market prices, free of all charge for commission.

Cook's KITCHEN.—This mire never looked better. The bottom level east is worth nearly 100%, per fathom, and a winze is worth 150%, per fathom. The mine will now make profit.

West Frances.—The great point here is sinking the engine-shaft 8 fathoms deeper, where the intersection of the engine and south lodes will take place, and the agents are very confident of success.

At Gonamena there is a good lode in the 114 west, on Venning's, and about 40 tons of copper ore (15 tons of good quality), will be sampled Dec. 2.

Prince of Wales.—The report at the meeting will show the mine never had better prospects than at present, and as the shareholders were aware that the want of water stopped the works for six weeks, the lessened dividend was fully account, as the mine is looking much better.

Wheal Crenon is looking better in the 108, on the north lode; and a winze sinking below the 96, in advance of the 108, is worth 16%, per fathom. The committee have been striving very much to get a reduction of royalty, so as to offer a little encouragement to the shareholders to persevere in the works, but all idea of reduction has been refused by the agents of the Duke of Bedford. Two companies of shareholders have spent 35, 400%, on the property without deriving any benefit, but the Duke of Bedford has received thousands of pounds in royalties, and there can be no doubt that the want of liberality on the part of the lords of mines generally is sending much capital abroad which would otherwise benefit Cornwall and Devon.

EAST DARREN continues to look well, and is returning about 75 tons of lead ore per month, at a profit of 300%.

The Lisburne Mixes are yielding 220 to 240 tons of lead ore per month, and making a profit of 500%, to each ward. The returns are about 60 tons of lead ore a month, and the profit 300%.

a month, and the profit 300l. CTH BASSET.—Two of the ends in this mine have now improved to 8l. pe

ES Y-SAFN continues to look well, and the quarterly dividend, early in De er, will be 11, per share. The returns are 200 tons of lead ore per month.

SATURDAY, Nov. 16.—The market to-day is very flat. Chontale ares down to 1 dis., owing to the reported death of Sir Charles Kirkpatrick conveiled heres declined to 22., 24. Prince of Wales, 51s. to 55s.; Chivertor

Fille shares declined to 22s., 24s. Prince of Wales, 54s. to 5ss.; Chiver, 5% to 6; West Chiverton, 69 to 71; Mass-y-Safu, 29 to 31, 5% to 6; Nest Chiverton, 69 to 71; Mass-y-Safu, 29 to 31, 5% to 67s, 18.—Market very quiet Indeed, and prices generally less firron Moor shares advanced to 6%. Chontales flat at 2%, Wheal Se firmer at 100 to 105. Grenville, 22s. 6d. to 25s.; Prince of Wales, 54s. Macs-y-Safu, 29 to 31; East Caradon, 6% to 6%; Clifford Amalgamat 60%.

53s.; Macs-y-Safn, 29 to 31; East Caradon, 6% to 6%; Clifford Amalgamated, 6% to 6%.
TUESDAY, Nov. 19.—The market is quiet, but Prince of Wales shares firmer.
East Gunnislake and South Bedford shares advanced to 35s., 40s. Chiverton Moor, 5% to 6; Prince of Wales, 52s. to 54s.; Wheal Grenville, 22s. 6d. to 25s.; Macs-y-Safn, 29 to 31; Chontales, 2% to 3. East Caradons receded to 6, 6%; WEDNESDAY, Nov. 29.—The market is dull. Chiverton Moor receded to 5. 5%, sellers, and East Caradon to 5%. Chontales shares advanced to 3, 3%; Prince of Wales, 5% to 52s.; Macs-y-Safn, 29 to 31; Wheal Secon, 100 to 105; East Gun-ni-lake/and South Bedford, 35s. to 49s.; Marke Valley, 6% to 6%.
THURSDAY, Nov. 21.—Market continues dull. Prince of Wales shares suddenly receded to 49s., sellers. East Caradon, Clifford, North Treskerby, and North Crofty flat. Chiverton Moor, 5% to 5%; Chontales, 3% to 3% (4h) safn, 9; North Crofty, 23 to 5.
FRIDAY, Nov. 22.—Market much better. Prince of Wales shares rose to 50s., 52s. Chontales buyers, at 1 discount. Carn Brea, 25 to 27. East Gunnislake, flatter. Chiverton Moor again advanced, to 5%, 6%. West Seton, 180 to 190; Seton, 97% to 102%; East Cara. 10, 5% to 6.

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WILLIAM J. VIAN, Sec.

### Notices to Connespondents.

• Much inconvenience having arisen in consequence of several of the Numb during the past year being out of print, we recommend that the Journal shot be filed on receipt: it then forms an accumulating useful work of reference

DIFFERENTIAL BAROMETER—"J. C." (Manchester).—The article by Mr. (no Sir) Goldsworthy Gurney, describing his differential barometer, was published in the Mining Journal of Aug. 23, 1831. The improvement appears to consist in substituting water for the mercury in the upper part of the column. The differential arrangement consists in the contraction of the upper part of the tube, or that part above the mercury, and in which the water is standing By this means any number of inches on the scale can be made to represent inches or fall of the mercury.

SOUTH RESOLVEN COLLIERY COMPANY,—My attention having been drawn to some enquiries made in the Journal as to the progress of the liquidation of the above company, I have to inform the shareholders through your columns that although the proper time has not yet arrived to submit a statement of accounts. I have, nevertheless, one in course of preparation, which will be shortly issued Unless, however, the shareholders or creditors contribute funds towards re munerating me for my services, I shall have no alternative but to shortly re sign my position to some more philanchropic individual.—The Liquidaton.—Nots 1088 COAL EXIST NEAR LONDON?—" & R. F." (Blackman-street).—Nothing of t

sign my position to some more philanthropic individual.—THE LIQUIDATOR.

DORS COAL EXIST NEAR LONDON?—"R.F." (Blackman-street).—Nothing of a really practical character has yet been done for deciding its existence or non existence south of the Thames. Messrs. Mather and Platt, of Manchester offered, more than two years since, to supply gratuitously the necessary machinery for the trial, but no one came forward to undertake the workings. WHEAL BULLER, AND ITS MANAGEMENT.—I am glad to find that at last the agents of this mine tell the adventurers the same as I told them—months since, under the cognomen of "A Miner." Time in mining is money, and had the engine been erected at the time, I consider the agents would have acted very much more to the advantage of the adventurers. Again, had the engine been erected at once on Kistle's shaft, the expense of the flat-rods erected since would have been saved. Common sense must tell any practical man that if are engine had been erected at Kistle's shaft, as is now erected there, the doing away with the flat-rods would enable Hocking's shaft to be sunk considerably deeper than it now is.—HENRY VINER.

Received,—"An Old Shareholder" (Quebrada)—"Verbum Sap." (West. Rose.

Received.—"An Old Shareholder" (Quebrada)—"Verbum Sap" (West Roswarne)—N. Ennor—"M. F.")—G. J. Gunther—"Mine Agent" (Manchester Share Dealing.—We never interfere in the sale or purchase of shares; neithed owe recommend any particular mine for investment or speculation, or broke through whom business should be transacted. The addresses of most of the latter appear in our advertising columns.

#### THE MINING JOURNAL,

Railway and Commencial Gazette.

LONDON, NOVEMBER 23, 1867.

#### THE FERNDALE COLLIERY EXPLOSION.

The frequent recurrence of extensive colliery explosions offers a temptation which is seldom resisted by the philanthropic unconnected with the working of coal, and hence there has been almost an inunwith the working of coal, and hence there has been almost an inundation of suggestions and contrivances, which although, no doubt, brought forward with the best intentions by those with whom they originated, are completely worthless, owing to their inutility, or the impossibility, of carrying them out; but it is seldom that practical men, whose opinions have the advantage of being based upon an intimate acquaintance with all the intricacies and difficulties of the subject, favour us with their views. The Ferndale Colliery explosion affords an important exception to the rule, as it has called forth a most valuable communication, which will be found amongst the Original Correspondence, from one of the largest colliery owners in the kingdom—Mr. John NIXON, the head of the well-known firm of NIXON, TAYLOR, and CORY, whose "Navigation Steam-Coal" is known wherever steam-shipping is carried on. As Mr. NIXON was born and educated as a viewer in the Newcastle-on-Tyne district, and as he has also had the advantage of 20 years' practical experience and as he has also had the advantage of 20 years' practical experienc a South Wales, it would scarcely be possible to find one whose opi-ion is entitled to greater respect.

The task which Mr. NIXON has undertaken is a difficult one. He

proposes to render compulsory the change in the system of working throughout the collieries of Great Britain, with the exception of Dur-ham and Northumberland, by advocating legislation to enforce the nam and Northmoeriand, by advocating legislation to enforce the adoption of the double shift system in every collicry liable to give off explosive gases. Great as is the change proposed, there can be no doubt that now Mr. Nixon has brought the matter prominently forward, the desirability of the change will be so apparent that legislation upon the subject will quickly follow. The double shift system is, as he very truly says, equally advantageous to master and man—the former gets his pit better and more safely worked, and the latter, with ordinary expertion is enabled to earn as much in seven hours. with ordinary exertion, is enabled to earn as much in seven hours with the double shift as in eleven or twelve hours with the single shift. Numerous as are the advantages which Mr. Nuxon has pointed out in his letter, there is one which, although inferred, is not specially referred to, yet it is probably greater than any which he has named—no working place is left continuously in the care of one set of workmen. With the single shift system the men are too apt to devote all men. With the single shift system the men are too apt to devote all their attention to sending up a quantity of coal, even to the neglect of the necessary consideration of the state of their working place; but if two sets are working alternately, each will take care that the previous one has left everything in proper condition. Until now the double shift system, although its universal introduction has been frequently suggested, has never, beyond the counties of Durham and Northumberland, received the attention it deserved; but it may now easonably be hoped that, by rendering its adoption compulsory, the dvantages derivable from the system will be extended to every coladvantages derivable liery in the kingdom.

## THE COLLIERY EXPLOSIONS.

#### LORD KINNAIRD'S APPLICATION TO THE HOME SECRETARY.

Well-directed and persistent efforts have, from the time of the ac-dent, been pushed forward at the Ferndale Colliery to recover the corpses, and to make the roads passable. For the first week the energies of everyone were bent towards the disentembing of the deenergies of everyone were bent towards the disentential of the deceased, and we have it upon the authority of a gentleman of all others best able to speak upon the matter that "nobly and courageously all hands conducted themselves. But heavy falls came, and fire-damp had to be fought with. All, however, are doing their best—owners, neighbouring viewers, the brave men themselves, and the Inspectors. They are putting in action their best energies both of body and mind until faulty the last relie of inspirants by unput it whall have Inspectors. They are putting in action their best energies both or body and mind, until finally the last relic of inanimate humanity shall have been brought to the surface. Up to this moment everything is satisfactorily progressing to such an issue." Up to the time of our writing 122 bodies had been recovered. These, added to the two men who have died of their injuries, make a total of 124 who have been interred by their relatives. It is computed that about 60 bodies yet remain under falls and in the workings not yet repaired, but it is believed that all these will have been got out by the time the inquest

When that investigation has been completed it will, no doubt, have transpired to what the calamity is traceable. Mr. Wales, not only himself an able man, but he has the benefit of the assistance of Mr. Brough, whose experience of the mining world has extended to more than one continent, and whose last report to the Home Secretary, from which we quoted in last week's Journal, would seem to point him out as especially qualified to take part in investigating this particular accident. And here we cannot refrain, in passing, from congratulating everyone interested in mining science that that gen-tleman escaped, on the first day of his descentinto the pit, an accident by which his life, too, was threatened. To what the catastrophe may ultimately be shown to be traceable we do not venture conjecture which is about to take place will fully clucidate it. There is, however, a matter arising out of this, and the other accidents which have recently occurred, of which some notice ought to have taken here. Lord Kinnairo, a nobleman whois well known for his philanthropic sentiments, and for his sympathy with the colliers in their harduous labours, has just communicated with the Home Secretary, urging

that a Royal Commission should be appointed to investigate and report upon accidents in coal mines. His lordship does not, however, content himself by making this suggestion. He supports it by a positive expression of his conviction that if proper precautions were adopted the great sacrifice of life which is now taking place might be avoided. The report of such a commission laid before the next Parliament would, he believes, result in "some legislative measure being carried, rendering the adoption of precautionary and other measures imperative, without which there will be a continuance of fearful acciednts, followed by the usual farce of a coroner's inquest, with Inspectors, colliery viewers, and witnesses who are compelled to withhold the truth or else take themselves off to another mine; all these proving before a jury, selected from tradesmen and others dependent on colliery and mining people, that there was no blame, winding up with the usual verdict, 'Accidental Death.' To use the words of these poor miners, 'If people as knows dare to speak, these things would soon be stopped.'"

Men who know more about collieries and colliers than Lord Kin. NAIRD at once perceive that his Lordship, in his laudable desire to benefit the collier, has altogether left out of calculation the part which the collier himself too often takes in bringing about the catastrophes which colliery owners and viewers have much more cause to regret than Lord Kinnairo can possibly have. Mr. Higgory descriptions are provided to regret than Lord Kinnairo can possibly have. Mr. Higgory descriptions and the catastrophes which colliery owners and viewers have much more cause to regret than Lord Kinnairo can possibly have. Mr. Higgory descriptions are provided to the catastrophes which colliery owners and viewers have much more cause to regret than Lord Kinnairo can possibly have. Mr. Higgory description and the cancer than Lord Kinnairo can possibly have.

which the collier himself too often takes in bringing about the catastrophes which colliery owners and viewers have much more cause to regret than Lord Kinnald can possibly have. Mr. Higson, the Inspector for the West Lancashire and North Wales district, himself reminds us that the special rules which provide for the guidance of the workpeople are clear and comprehensive, but are not sufficiently obeyed, even by the best and most experienced workmen. It should, however, be distinctly remembered, he adds, that "omitting to obeyone of these rules is like trusting one's life on a chain in which there is a defective link." The grievous loss of life which has taken place in collieries where every necessary provision for safety had been nreis a defective link." The grievous loss of life which has taken place in collieries where every necessary provision for safety had been previously made known is most remarkable. A perusal of the last reports of the Mines Inspectors will demonstrate this to everyone who, not brought into daily contact with the miner in the pit, needs information upon the point. That loss of life, Mr. HIGSON Says, "is evidence of the reckless and inattentive acts of the deceased, and shows most clearly that unless workpeople can be impressed with the belief that they possess the means of avoiding danger, and that they must use it upon all occasions, such serious casualties will continue to happen." Further on, the same Inspector has it that, even after accidents of the most painful character have been brought under his observation, the collier still "relies for all necessary protection on accidents of the most painful character have been brought under his observation, the collier still "relies for all necessary protection on those who are in charge of the works. On finding anything wrong in his place of work he may, perhaps, mention it to the underlooker or fireman, when he meets with him, but he seldom makes such or fireman, when he meets with him, out he section makes such communications to the owner, or principal agent, and never to the Inspector of Mines." Similar testimony might be quoted in abund-ance, and all would show that the fatalities which everyone deplores are not to be prevented by one-sided legislation, even by a "reformed

Parliament.

Colliery owners can have no objection to a Royal Commission, so far as such an enquiry might result in the disclosing of facts showing a want of precaution or care on their part. They and their viewers, and mining engineers generally, would be only too thankful if a Royal Commission could assist them in the efforts which they are contactly making with a view to bring these accidents to the are constantly making with a view to bring these accidents to the minimum. Seeing, however, that the Select Committee on Mines have only just concluded their labours, it may be a matter for consideration whether the further cost of a Commission is now called for. Further legislation there will be, and the report of the Select Committee, and the recommendations of the Mines Inspectors, by which the report was accompanied, point to the direction which that legislation will take a reachable great inspections. legislation will take—probably more inspection, and an increase of the restrictions already placed upon colliery proprietors in the de-velopment of their property. With the probability of this, it might have been thought Lord Kinnaird would be satisfied, and here for

have been thought Lord KINNAIRD would be satisfied, and here for the present we leave his lordship's application.

On behalf of the 63 widows and the 120 orphans that have been made by that which we cannot but regard as a national calamity, we express an earnest hope that the suggestion of a writer in the Daily News of Wednesday, that the Lord Mayor of London would open a subscription at the Mansion House, may be acted upon. The result of such a movement, combined with that which is taking place in the Principality itself, where a large meeting to raise funds was held on Thursday, would, no doubt, lead to money being contributed sufficient to prevent the relatives of the deceased from having to resort to parochial relief. The contributions from the public generally should be more readily given when it is known that Messrs. DAVIS, the proprietors of the Ferndale Pit, have borne the mural costs, and are paying all the widows 7s. a week each until a more complete are paying all the widows 7s. a week each until a more complete means of relief can be afforded.

#### IRON IN AMERICA AND ENGLAND.

Prominent public attention has been directed in the past few days to the iron trade in Great Britain and America respectively. A gentleman writing to the *Times*, under the signature of "J. S.," supposes. tieman writing to the Times, under the signature of "J. S.," supposes, in introducing his letter, that "a few remarks upon the iron trade, which is at present so depressed, may not be unwelcome from one who has just returned from a hasty trip through some of the most important rolling mills in the United States and Canada. "J. S.," however, is not, it is clear, connected practically with the iron trade. He may have plenty of experience upon the selling of iron, but he does not know a great deal of its manufacture in this country. He would to seem to have implied a higher extincts of the ability. would, too, seem to have imbibed a higher estimate of the ability and progress which the Americans have made in the rolling and manipulation of iron than that nation deserves. "J. S." shows correctly that altogether the American ironmaster possesses an advantage over the ironmaster in this country of a tariff and other charges, amounting altogether to perhaps 77 per cent.; but that even this is insufficient to enable the American mills to be carried on with sucinsufficient to enable the American mills to be carried on with success, and that, therefore, further applications are being made to the Government of the country with a view to additional import duties being imposed. He also lays down as absurd the prevailing notion in American that American rails are superior to English improved rails, and states that three-fourths of American rails are re-rolled did rails, with a thin top of puddled bars, these old rails having originally been shipped from England. As large a quantity as 25,000 tons of old rails, hesays, have been sent to America from England during the past 12 months, there to be re-rolled, to produce the quality said to be so much superior to English.

The views "J. S." has arrived at upon this subject happen to be correct, but that correctness does not result from his correct appre-

The views "J. S." has arrived at upon this subject happen to be correct, but that correctness does not result from his correct appreciation of the true state of things. He would seem to imply that if a bar of iron were bad in England it could not be made good by being re-worked in America. This does not, however, follow. To make new a rail, the old rail must go through two further processes. In its progress it would be greatly improved for many uses, but not for those to which a rail would be put. A good rail cannot be made out of old iron, for it would be found, in the language of the trade, to be "too dry." The best rail is made from purely maiden iron, by which an amount of homogeneousness is secured impossible by the which an amount of homogeneousness is secured impossible by the use of old iron. These rails, therefore, which the Americans are now making out of our old rails will, no doubt, soon show lamination to an arrange of the rails will be a secured to the rail of the rails will be a secured to the rail of the rails will be a secured to the rail of the rails will be a secured to the rail of the rails will be a secured to the rail of the rails will be a secured to the rail of the rails will be a secured to the rails will be a sec extent that will necessitate its abandonment after only comparatively little wear. "J. S." points out as worthy of the imitation of the British ironmasters the extent to which labour-saving machinery is employed in the American mills, and directs prominent attention to employed in the American mills, and directs prominent attention to "a machine calle | a squeezer," which he says is in every ironworks in America, requires no manual labour, and "does the work of our steam-hammer, which requires the attention of two men." He then adds that there is only one of these machines used in England, and that a steam-hammer is not seen in one work out of ten in America. So much the worse, we say, for the one works in England, and so much the better for the one works out of ten in America. This squeezer, which "I S" lands all ironwasters in England, axeenling squeezer, which "J. S." lauds, all ironmasters in England, excepting a very few who are making iron now and then in which good quality is not a desideratum, have long ago abandoned, and have resorted to the far more effective tool—the hammer. It is impossible with the squeezer to produce fron free from dross. So long, then, as the American master employs the squeezer to so large an extent as "J. S." intimates, it will be impossible for him, even with his

high tariff, to compete with the product of the British maker, for the quality cannot be made to equal the iron of this country, the quality of the original pig being equal.

#### ECONOMY IN GENERATING STEAM.

ECONOMY IN GENERATING STEAM.

Amongst the more important improvements in the shape of steamboliers in operation at the Paris Exhibition was the patent safety-bolier and superheater of Messrs. J. and F. HowaRD, of Bedford, and as favourable mention has already been made in the Journal, a large number of its readers will doubtless be glad to learn that at the number of its readers will doubtless be glad to learn that at the number of its new busily engaged packing fodder for the Abyssinian expedition, an opportunity can now be obtained for judging how large an amount of care is being taken that all connected with the undertaking shall be well provided for, and, at the same time, the substitution of the consists of a series of horizontal and vertical tubes, united by simple consists of a series of horizontal and vertical tubes, united by simple yet most perfect joints arranged above the fire space, in such a way that the heat after twice passing over the water-space of the boiler is still further utilised in partially drying and superheating the steam, a thorough circulation being secured in every part of the boiler by the use of internal tubes of suitable length and diameter. The boiler combines simplicity and compactness, with efficiency to the greatest possible extent, and contains, so far as can be seen by a minute examination of every detail, no part which is at all likely to prove a source of inconvenience to those using it.

In the boiler in use at the Globe Wharf the tubes, which are of wrought-iron, are 60 in number, and are arranged in 12 rows of 5 each. The bursting pressure of each tube is upwards of 2000 lbs. margin, or one-twentieth, the usual margin allowed in Cornish boilers being only one-sixth, and even this, owing to flaws in the plates and other defects, is often much reduced; but, apart from the circumstance of possessing the power to resist a higher bursting pressure, the Howard boiler has likewise the advantage that, being composed of a number of small tubes, the bursting of any one of which

pieces, as they readily could be if it were desired to other the utmoss facilities for transit—as it was, the heaviest weight to be lifted was outs. The small amount of trouble which attends the use of the boiler can be judged of from the fact that ordinary workmen can put it together, and repair it, when necessary, with the greatest ease.

With regard to the economy of fuel, the Howard boiler has likewise much to recommend it, for it is found that in getting up steam to the working pressure only about one-fifth of the coal is required that is consumed by the ordinary Cornish boiler; for instance, in a 40-horse boiler steam can be raised to 80 lbs, pressure in 20 minutes with 2 cwts, of coal, the actual consumption being only 84 lbs. The heat is readily absorbed by the tubes, and the highest amount of evaporation is obtained. A Gauntlett's pyrometer, placed in the flue leading to the chimney, indicates 200° lower temperature than with the Cornish boiler. The current of heated gases impinges on the surface of the vertical tubes at right angles, instead of simply gliding underneath, as in the ordinary Cornish and tubular boilers. The relative value of the two kinds of heating surface is not inaccurately described by the observation that "the effect produced by the direction in which the heated current strikes the surface." And as to the simplicity and durability of the parts, it is sufficient to state that each of the tubes composing the boiler is secured in position by two boils only, which are fitted with brass nuts to prevent locking with rust. The top of each tube is solid, and any tube can be taken out, whatever may be its position, examined, and replaced by the attendant in a quarter of an hour. The tubes, being counterparts of each other, are interchangeable, so that any of them may be turned about, or be brought in succession to that part of the boiler where the action of the fire is the most intense, thus greatly prolonging their durability. Every part of the boiler is readily accessible; it has no joint

The value of such a boiler as this in connection with mining, and especially with foreign mining, operations will be apparent. The whole can be readily transported to the most suitable position on the mine, however inconvenient it might be to carry there machinery of the ordinary description. There is no part of the boiler which could not be carried upon the back of a mule with the greatest facility over the most difficult mountain passes, and upon reaching its destination two or three ordinary European workmen could quickly erect it and get it to work; whilst from the very character of the boiler it is well adapted for the burning of any description of fuel that may be at hand. Owing to the perfect circulation produced by the internal tubes, incrustation is almost an impossibility, even where very foul water is used; and the fact that in the 40-horse boiler above alluded to there is not the slightest leakage at the joints is a sufficient guarantee that in this respect no inconvenience would be felt. The setting of the boiler is extremely plain, and by no means costly; and, ratee that in this respect no inconvenience would be felt. The setting of the boiler is extremely plain, and by no means costly; and, although the most convenient shape is a parallelogram, it can be readily adapted to other shapes, where, owing to exceptional circumstances, it is more desirable. But, perhaps, the most important point in connection with the boiler is the nature of the steam, which will be just sufficiently superheated to secure a certain amount of dryness, but not so much as to prevent lubrication; it will give, in fact, a superheated steam of high temperature, but as this is always in contact with the saturated steam immediately above the water, it would never be of that excessive dryness which is calculated to damage the engine in which it is used. The boiler is altogether one of the most simple and efficient which has yet been introduced, and one which only requires to be well known to become a general favourite.

COAL IN THE INDIAN ARCHIPELAGO .- It is not generally known that the British colony of Labuan was established in December, 1846, in order to become a coal depôt for steam navigation, a harbour of refuge for ships disabled in the China seas, and as being in a commanding position in the event of a naval war. The island lies on the north-east coast of Borneo, 700 miles from Singapore, and 1000 from Hongkong, and is the only other British port of refuge within the wide limits of the China seas. Its name, derived from the Malay "Laboo," or Anchor, describes how well it is adapted to be a place of resort for shipping, either to or from China; and as, in place of its being merely a coal depôt, it has proved to be one great coal field, the island may be deemed an important addition to the British Em-pire. The Colonial Government, however, has taken no other steps to develope the valuable resources of the island than that of granting ses to companies, which have thereby successfully been encouraged to expend upwards of 300,0002, in securing to the country, with the hope of a fair profit to themselves, the advantage, inestimable in these days of steam-propelled shipping, of an inexhaustible supply of first-rate steam coal at the spot where it was most needed. After struggling with many difficulties, the China Steam and Labuan Coal Company has now completed works which admit of a daily supply from 200 to 200 teams of whether the coal company has now completed works which admit of a daily supply of from 200 to 300 tons of valuable steam coal. The company, in order to legalise a proposed reduction of capital from 20% to 15%, per share, now no longer possible, was placed last year in "liquidation," and in consequence of some small shareholders objecting to pay calls, "under supervision of the Court." The company has, consequently, been obliged to ask the Court's permission to send out its of funds to continue operations. This consent on the part of the from 200 to 300 tons of valuable steam coal. The company, in

Court has been refused, and the question remains whether the entire property of the company is, therefore, to be sacrificed. Should this country again be involved in war with a naval power the value of the Labuan coal fields as now developed cannot be over-estimated, coal being contraband of war, and its supply for naval purposes from this country liable to dangerous interruptions. During peace a sum equivalent to the entire cost of the Labuan Government establishment would be saved if 5000 tensor treatment were talled. would be saved, if 5000 tons a-year only were taken of Labuan co by the Navy at the island at 20s. per ton, the stipulated rate.

The Nova Scotian Coal Trade.—The recent legislation in the United States affecting the coal trade has given rise to much excitement in Nova Scotia. The Coal Owners' Association held a meeting on Oct. 27 (Mr. J. A. Morea in the chair), and after some discussion unanimously adopted a memorial to the Senate and House of Commons. It was also decided to bring the subject before the Provincial Legislature at their next session. The Province being the owner of the mines and minerals within her limits, is jointly increased with the lessees in the development of the coal trade, while the numerous interests indirectly affected by it render it a subject of paramount importance to the Local Legislature, and that they can create within the dominion a coal trade that will be an equivalent for that with the United States was clearly shown, and it was hoped that this fact, when it is more generally known, will lead to a renewal of those commercial relations with the United States which have proved so mutually advantageous. The memorialists submit that the dominion of Canada, by adopting a similar policy to that of their neighbours, would in time render their coal trade independent of foreign legislation. The consumption of coal among them is rapidly increasing, and in a few years not less than a million of inhabitants of British America will use coal instead of wood for domestic ruel. When it is remembered that the consumption for household purposes in Great Britain is at the rate of a ton per head, and that their longer win ters render at least twice as much fuel necessary, they look forward to a time when two millions of tons of ooal will be required in the dominion alone for domestic purposes, independently of what will be required for manufacture, and other industrial purposes. The memorialists believe that the creation of a coal traffic between the eastern and western portions of the dominion about traffic between the eastern and western portions of the dominion are related to bind them together by commercial intercourse, THE NOVA SCOTIAN COAL TRADE.—The recent legislation in the

RESPONSIBILITY OF MINE AGENTS.—In reply to the memorial respecting the recent mining decision in "REGINA v. COPE" (Pensnett), which has been forwarded to the Home Secretary by the members of the Incorporated Association of Mine Agents, and by the committee of the Ironmasters' Association of South Staffordshire, for a remission of the fine, Mr. HARDY says that "having enquired into the circumstances of the case, he must decline to interfere in the matter;" so that this decision makes the consulting mine agent of a colliery responsible for every infringement of the general rules. the matter; "So that this decision makes the consulting mine agent of a colliery responsible for every infringement of the general rules, although a resident mine agent be appointed, whose duty it is to daily visit and inspect the mine. Considering the very serious responsibilities thrown upon the agents and owners of mines by recent Acts of Parliament, they think that some notice should be taken of this decision in the next session, in order to get the duties of all officers of mines so defined and limited that all parties may know where their responsibilities herin and and their responsibilities begin and end.

THE NEW GOVERNMENT INSPECTOR.—We are glad in being enabled THE NEW GOVERNMENT INSPECTOR.—We are glad in being enabled to say that Mr. Frank Wardle has been appointed Government Inspector of Mines for Northumberland, Cumberland, and Durham north of the Wear district, after passing a very satisfactory examination before the Civil Service Commissioners. The office was recently held by the late Mr. Albert Verner. It will be pleasing to the professional gentlemen of the North to know that a Tyneside man has received the appointment. Mr. Wardle is the son of the Rev. Henry Wardle, rector of Winlaton, and commenced his professional career under Mr. John Taylor Ramsay, Walbottle; and, subsequently, held appointments, which he fulfilled in a very creditable manner.

STEAM COAL IN THE GWENDRAETH VALLEY.—Attention is now being called to the resources of this valley at the extreme western point of the South Wales Coal Field, and there is no doubt they are much more valuable than is generally thought. Every seam has been represented as anthracite of the best quality, but anthracite exclusively. We have in these columns frequently disputed this statement, being convinced from personal investigation that some of the seams are equal in quality to the Aberdare steam coal. The subject has been noticed recently in some of our contemporaries, and Mr. Fairley, of Loughor, writes—"I find there is a belief that there is no such thing as steam coal in this valley. I must run counter to this opinion, the evidence, I think, being sufficient to warrant the contrary opinion. The following analyses of the Aberdare (No. 1) and Gwendraeth (No. 2) coals support my view:—

Carbon 88:38 87:90

Volatile matter 7:99 90:00

Sulphur 1:09 1:00

Ash 2:14 2:10

I have shown these analyses to an eminent factor at Swansea, who STEAM COAL IN THE GWENDRAETH VALLEY .- Attention is now

Ash 2.10

I have shown these analyses to an eminent factor at Swansea, who says No. 2 is a better steam coal than No. 1." This subject is of somuch importance that we purpose discussing it at length next week

GALE'S INEXPLOSIVE GUNPOWDER.—It is gratifying to learn that so far from the process of Dr. Gale having proved inefficient, it will, within a very short period, be in active operation. We are authorised to state that the inventor has been in communication with the authorities, and as the necessary arrangements are being made, the value of the invention will now be officially and thoroughly ascertained.

The New Tunnelling Machine.—A further trial was made at Hayle, on Wednesday, of Mr. Brunton's tunnelling machine, in the presence of a large assemblage of gentlemen eminently fitted, by their scientific and practical knowledge, to judge of the performance of such a machine. Among those present were—Messrs. Charles Fox, William Husband, W. M. Grylls, F. Harvey, R. H. Pike, T. P. Le Grice, C. Le Neve Foster, William Harvey, J. Usticke Scobell, S. J. T. Lynch, O. Glynn Bolitho, William West, J. D. Sherriff, H. T. Ferguson, Joseph Mitchell, T. Corfield, Capts. Petherick, Barrett, Arthur, and Tremayne. The character of the rock was such as to constitute a severe test of the capabilities of the machine. Notwithstanding the hardness of the stone, a progress of 8 in. was made in 40 minutes. The level is of a circular form, 7 ft. in diameter. Some of the chips produced by the machine may be seen at the office of the MINING JOURNAL. We understand that several proposals were made on the spot to the inventor to drive levels in mines in the neighbourhood, and the unanimous opinion seemed to be that a machine was at length produced by which mechanical action, without the intervention of gunpowder, could be brought advantageously to bear on the exploration of mines and the formation of railway and other tunnels. To those who know the difficulty with which the best tempered steel chisels act upon such a blue elvan as this machine had to deal with, it may seem almost impossible that roises 2 or 3 in general and the THE NEW TUNNELLING MACHINE. - A further trial was made at chisels act upon such a blue elvan as this machine had to deal with chisels act upon such a blue elvan as this machine had to deal with, it may seem almost impossible that pieces 2 or 3 in. square, and ½ to ¾ in. thick, should be split off in a continuous shower. Many doubts of the possibility were, we venture to say, brought to the place of trial, but we do not believe one of them was taken away. The explanation of the mystery makes it a mystery no longer, and the fact lanation of the mystery makes it a mystery no longer, and the fact ecomes the more readily accepted as true when it is seen to be in perfect accordance with recognised principles. The contest between the steel and the stone is one in which their comparative power to resist crushing is alone brought into question, and as a cubic inch of granite is crushed with a weight of 11,000 lbs., while 40,000 lbs. do grante is crushed with a weight of 11,000 lbs, while 40,000 lbs, do not in the least affect a cubic inch of steel, it will be manifest that in such a conflict the steel ought to prevail; and it not only ought, but it does prevail, as all who witnessed the trial of Wednesday can testify. We are informed that Mr. BRUNTON has also many applications already, out of the country, to undertake tunnelling work with this machine, so it cannot be long before there will be details of actual working. We look forward with great confidence to the result and truck that one heaft desired with result, and trust that one benefit derived will be result, and trust that one benefit derived will be the extension o mining operations in Cornwall, to the advantage of "One and All."

of which only 8331 tons were received to Sept. 30 this year, as compared with 17,938 tons in the corresponding period of 1866, and 16,363 tons in the corresponding period of 1865. The quantity of copper regulus imported to Sept. 30 this year was 20,906 tons, as compared with 27,450 tons to the corresponding date of 1866, and 24,502 tons to the corresponding date of 1865. In these latter imports the receipts from Chill figured to the extent of 18,702 tons to Sept 30 this year, as compared with 24,241 tons to the corresponding date of 1866, aed 22,919 tons to the corresponding date of 1865. The total imports of copper ore and regulus in the ten years ending 1866 inclusive were as follows:—1857, 95,094 tons; 1858, 97,099 tons; 1859, 84,455 tons; 1860, 97,317 tons; 1861, 94,480 tons; 1862, 117,438 tons; 1863, 102,099 tons; 1864, 93,304 tons; 1865, 122,248; 1866, 129,547 tons.

#### REPORT FROM SCOTLAND,

REPORT FROM SCOTLAND.

Nov. 20.—If let alone, the price of Pig-Iron in this market would become nearly stationary, with a downward tendency, in the present state of the trade, and it is to speculation alone the sudden jerks up and down are to be attributed. Speculation having completely failed to keep prices up, the "bulls" appear a fraid to hold larger, and prices had declined on Monday from 9d. to 1s. a ton from the highest of the previous week; but they again rallied yesterday, and it is supposed they were let down with the intention of again attempting to raise them at a bound. Their little game just now has been a losing one, and it is difficult to see how they can so move their men as to have them "crowned" in the present aspect of trading and political events. The home trade is still restricted, and although the exports to date show an increase of 36,500 tons on the year, that increase is decreasing almost weekly, and may yet leave a deficit before the remaining weeks of the year are run. For this week the shipments show a small increase, being 11,905 tons, against 11,380 tons in the corresponding week last year, but this small increase comes after a series of weeks of decrease. The market to-day is quiet and steady, and a few sales reported at 53s. 6d. cash, and 53s. 8d. a month, with buyers at these prices at the close, sellers 1\frac{1}{2}d. per ton higher. Makers' in limited request; Gartsherrie and Coltness, 61s.; Calder, 59s. 6d.; No. 1, g.m.b., 54s. 9d.; No. 3, 53s. 6d. The demand for second-class brands of Finished Iron is rather improving than diminishing, and orders have in some instances been booked for January, next year. First-class brands are also in rather better request, with a tendency to improvement in prices. In shipbuilding iron there is an appreciable addition to the demand, but there is a likelihood that rates will not be long continued as at present quoted. New contracts are being entered into weekly, but the price per ton at which they have been taken precludes the possibility of

Britain were to be encouraged, it was indispensable that rates of duty very considerably less than those proposed should be adopted.

The very favourable price of coals for shipment is showing itself in our export trade, which has this week reached 30,590 tons, against only 19,755 tons in the same week of last year. Of the larger sum there are about a third for the East, so that Government should have their Abyssinian fleet cheapily fueled. The market still continues weak, and there is not much of a home trade doing. The colliers are disappointed at not having received a rise in wages, as was in a sense agreed upon by the masters some time ago. The masters are beginning to perceive that they promised too much, and as they cannot raise the price of their produce, are demurring to give the increase of wages. It would appear that the miners in the Glasgow district are slow in responding to the call of the other districts to agitate for an advance; and being all located in or near the town are aware of the depression in the various trades, and are unwilling, by precipitation, to originate a strike, and swell the number of the unemployed. Allanton Colliery, Larkhall, has become flooded, from some undiscovered cause, but no casualties have occurred.

unemployed. Allanton Colliery, Larkhall, has become flooded, from some undiscovered cause, but no casualties have occurred.

Among the Railway Parliamentary notices, just published, is one for the repeal of the North British and Edinburgh and Glasgow Railway Companies' Amalgamation Act of 1865. The powers sought to aim at placing the Edinburgh and Glasgow Railway in the same position as regards, plant, capitall, debentures, powers, &c. as it occupied previous to the amalgamation. The name of Mr. W. M. Wilkinson, solicitor, who occupied a conspicuous position in the opposition to the North British Railway Money Bill, is attached to the notice, and it is presumed that action is being taken on the part of some off the Edinburgh and Glasgow Railway sharcholders.

Of the launches this week is a screw steamer of 1700 tons for the Austrian Lloyd's Steam Navigation Company. The vessel is named the Ceres, and is of 250 horse-power.

REPORT FROM NORTHUMBERLAND AND DURHAM. Nov. 19.—The Coal and other trades continue, on the whole, good, and there is little change connected with them. The reduction of the water at the Shank House Pit, Cramlington Colliery, is now going on satisfactorily, the rate of reduction being 1 ft, vertically per day. As the present height of the water from the bottom of the shaft, upwards, is about 50 ft., the water may be expected to be got out shortly, and the workings re-entered.

the present height of the water from the bottom of the shaft, upwards, is about 50 ft., the water may be expected to be got out shortly, and the workings re-entered.

As stated in last week's Journal, Mr. John Straker has beer, appointed to the vacant Chairmanship of the Coal Trade Associat' on of Northumberland and Durham, and a more useful and fitting man could not have been chosen for the important office.

"Elfin," in the Newcastle Daily Chronicle, generally so well informed, has, in his last, fallen into serious errors. He has, no doubt, been hoaxed by some wag, or misled by some ignorant babbler. He says that "the lives of the miners are constantly hanging, as it were, by a thread." In old pits the "goaf," or wrought out part of the mines, is constantly charged with impure gas, ready to burst forth and carry death into the workings upon a very slight derw agement of the ventilation; and as to deep pits, they are full of da ager, &c. Of course, this is quite unanswerable, the most of it being quite erroneous. The assertion that, as a rule, mines are oraly profitable to masters and men when they can be worked with naked ligh its is quite incorrect. The bulk of the best mines in Durham are wo rked with safety-lamps, and, although they are well ventilated, it is quite necessary to use safety-lamps as a precaution. What an opinion he must have of the viewers and others who have charge of the mines, and whose lives are constantly endangered, as well as those of the men. A meeting of ironmasters was held in Newcaste on Friclay, when it was determined to make another reduction in the rrate of wages, and notices to that effect were posted up at most of the principal works on Saturday, and is is generally understood that the amount of reduction will average about 10 per cent, though there are some classes of labour that will not be reduced so much. The men at the Darlington Iron Company have agreed to terms which give hammermen 10s. per shift; assistants, 6s.; forge rollers, 7s. 6 d., and assist-

Darlington Iron Company have agreed to terms which give hammermen 10s. per shift; assistants, 6s.; forge rollers, 7s. 6 d., and assistants 5s. each per shift. Puddling is to be 8s. and 7s. per ton, according to mixtures. It appears that the demand for manufactured iron, and the price received for it, is so very unsatisfactor; /, that this unpleasant course has been determined upon. Although the demand for prigricing continues telegrably good, the price remains the demand for

pleasant course has been determined upon. Although ithe demond for pig-iron continues tolerably good, the price remains its last quoted. Several letters have appeared in the local papers respecting the late boiler explosion at Waldridge Fell Colliery, one of the most remarkable being signed "A Colliery Brakesman." The writer a liudes to the fact, which is very remarkable, that boiler explosions occur so frequently on being set to work after cleaning, repairing, & c., and he assumes that the cause of this is the formation of same ki and of gas, and recommends that the valves should be lifted, and thy full present the commends that the valves should be lifted, and thy full present the commends of the same with the commends that the valves should be lifted. and recommends that the valves should be lifted, and the and regularly acted upon, by many colliery engineers, but still it is quite possible that, although the fact is acknowledged that a great number of explosions of boilers occur under those partie ular circumstances, the reason for this may not have been defined. Some believe that the joining of the new plates to old ones can see a rupture by unequal expansion on the boiler being heated; other sthink with the "Colliery Erakesman," that a peculiar gas is forward on the ad-

mission of fresh water, and the said water heated. But does it not follow that those peculiar circumstances alluded to are the most dangerous that can occur in the life of a boiler? As every part of the boiler has been thoroughly cooled for cleaning, &c., if the fire is applied, and pushed rapidly forward, danger may arise from unequal expansion; and prudence appears to dictate that the boiler ought to be gradually heated up to the required point, and the valves lifted to allow the escape of compressed air, &c.

Mr. Frank Wardle has been appointed, as successor to the late Mr. Albert Verner, the Government Inspector for this district.

PRESENTATION TO A COLLIERY VIEWER .- On Saturday, a deputa-PRESENTATION TO A COLLIERY VIEWER.—On Saturday, a deputation of the workmen of Peases' West Collieries, sisted Thorsley Colliery for the purpose of presenting a testimonial to their late viewer, Mr. J. G. CROFTON, on eis leaving the Peases' West Collieries to take charge of the Thornley and Ludworth Collieries, belonging to the London Steam Collier and Coal Company (Limited). The testimonial consisted of a very handsome silver fea service, and bears the following inscription:—'" Presented to Mr. J. G. Crofton, on his leavithe Peases' West Collieries, by the workmen and a few friends, as a sincere token of respect and esteem, October, 1867.' Mr. T. Mitchell, of Peases' West Stanley Colliery, made the presentation in a next speech, referring to the long time that he and Mr. Crofton had worked harmoniously together, and the regret that was fs. to his leaving the neighbourhood. Mr. Crofton feelingly acknowledged the testimonial.

NEW COLLIERY NEAR COLLIERY DYKES, DIPTON .- A commencement to sink a new colliery took place on Monday at the above place, by the in-teresting ceremony of cutting the sod, which was accomplished by Miss Dicken-son, of Shotley Bridge, who named the colliery after herself—"Lily." The owners are Messrs. Robert Dickenson and Son.

#### REPORT FROM MONMOUTH AND SOUTH WALES.

Nov. 21.—No improvement has taken place in the prospects of the Iron Trade of this district, and the orders on hand are being speedily worked out. The reports from the various works continue to be of an unsatisfactory character, and not the slightest degree of to be of an unsatisfactory character, and not the slightest degree of animation is being evinced in a single branch of the trade; in fact, in some instances business is now worse than it was at the commencement of the present quarter. The orders received are said to be inadequate to those being worked out, and the number of workpeople employed two-thirds time are consequently increasing. There is considerable apprehension that the worst time has not yet been witnessed, and that before next spring some few privations will have to be endured by the working classes of this district. At some of the leading establishments operations have undoubtedly been checked by the closing of the Russian shipping season, for during the period shipments were made to that country makers had some degree of shipments were made to that country makers had some degree of confidence in keeping their mills and forges going. In previous reports reference has been made to the large quantities of iron sent to the Muscovite empire, and it is not unreasonable to assume that a fair share of future orders will be sent to this district: but at the same time it must be borne in mind that several heavy Russian contracts have of late been given to Belgian makers, who most undoubtedly received them through giving in a lower price than that sent by South Wales makers. It has been said by a gentleman, well versed in the home and foreign iron trade, that continental makers pay from 10 to 20 per cent, less wages than the makers of this district, and so long as this is the case it is not improbable that it will materially affect the number of contracts sent to this district. It is certainly far from satisfactory to find that while our makers are compelled to put their hands on short time the Belgian makers can compened to put their hands on short time the Beigian makers can keep their hands fully employed. The Honduras Government are inviting offers for a loan of a million to make a railway from the Gulf of Mexico to the Pacific, with interest at 10 per cent. per annum, the loan to be repaid by small instalments in seventeen years, with a share in the profits of the line for fifteen years. Should the loan of the sum required be obtained, a quantity of railway materials will be required, and it is not improbable that some of it would be obtained from this district. On home account contracts it would be obtained from this district. On home account contracts are slow in coming to hand, and this will probably be the case until there is a change in the money market. Public confidence in railway securities appears to be entirely lost, and until that is restored there is little likelihood of a good trade being done on home account. For the commoner qualities of pig-iron there is but little enquiry, but the best brands are selling tolerably well. For Tin-Plates orders have somewhat slackened, but prices remain firm. For Steam Coal there is a good demand, and the exports during the past month were more than 30,000 tons in excess of the corresponding period of 1866. The increase was chiefly on account of the quantity required for the Abyssinian expedition. sinian expedition. The demand from the Mediterranean and French ports has considerably increased of late, and there is a probability of a brisk demand for some little time to come. For House Coals there is a tolerably fair demand, but there is room for a considerable improvement in this branch of the trade, and as the weather has given indications of late of increasing in coldness, there is a probality of an increase in the consumption.

an increase in the consumption.

Mr. H. Huxham was summoned before the Neath magistrates for the non-payment of 21, 10s, 9d., wages due to Patrick Leary. Mr. Payne, who appeared for the defendant, said he had two objections to raise in this case—first, that the Act of Parliament required that application should be made within six calendar months from the time such money became due, which had not been done in this case, the summons showing that the money had become due on March 4 last; and, second, that Mr. Huxham, described in the summons as steward to Mr. Parker, was no longer such a steward, nor was he at the time the summons was taken out, the property (the colliery) at the time being clearly in the possession of the Bagian Hail Colliery Company (Limited). Complainant said he worked in the Bagian Hail Colliery Company (Limited). Complainant said he worked in the Bagian Hail Colliery Company (Limited). Complainant said he worked the the Bagian Hail Colliery Company (Limited). The Bagian Hail Colliery Company, but he works containing such words as these:—"The Bagian Hail Colliery Company, but he was not working there then. Mr. Huxham had not engaged him.—Mr. Payne contended that the responsibility of payment did not attach to Mr. Huxham, nor was Mr. Parker liable for it.—The Chairman: When did this new company commence?—Mr. Payne: On May 14, I am informed.—The Chairman: We are surprised at the company and at Mr. Huxham not paying this money. We have not the slightest hesitation in making an order upon Mir. Huxham for the payment of the sum sought to be recovered, together with the costs. We are surprised that there should be only opposition made to the payment of these poor people, and that they should be obliged to incur an expense in order to prove their claims for work honestly done.—Mr. Payne: Will you grant me a case?—The Chairman: You can appeal.—Mr. Payne: There is no appeal.—The Chairman: Well, we do not think it necessary to grant case in this instance.

The Golymos Ironworks and Foundry, with freehol Mr. H. Huxham was summoned before the Neath magistrates for

The Golynos Ironworks and Foundry, with freehold and copyhold mineral and house property, are announced for sale. The works are situated about four miles from Pontypool, and adjoin the Ebbw Vale Company's Works

at Abersychan.

We learn from the Cwmamman Valley that the prospect of work for the winter is dreary. A reduction of 10 per cent, in the colliers' wages has been determined upon by all the owners in the Valley, with one exception. The Raven inn Colliery has been at a stand for about a month, and the men have been compelled to migrate into Giamorganshire, there being no work here for them. We understand the demand for anthracite, the coal produced in this valley, is very limited.

arrivals at Swansea include the Ann Jones from Rotterdam The arrivals at Swansea include the Ann Jones Irom Rotteruam, with 89 tons of copper ore for Bath and Son; Parkside from Santander, with 170 tons of copper ore for Richardson and Co., and 60 tons of iron ore for Richards, Power, and Co.; the barque Theta from Iota, with 575 tons of unwrought copper, and 224 tons of wrought copper, in Dars, for H. Bath and Son; Jeune Auguste from Cherbourg, with 95 tons of iron ore for Robert Crawshay; Rose de Mai from St. Ruder, with 167 tons of zinc ore for Richardson and Walters; Faithful from Bilboa, with 398 tons of iron ore for W. H. Tucker; Sylph from Bilboa, with 296 tons of iron ore, also for W. H. Tucker; James Cuckow from Bilboa, with 296 tons of iron ore, also for W. H. Tucker; James Cuckow from Bilboa, with 247 tons of iron ore, also for W. H. Tucker; Admirai Fitzroy from Carrival, with 550 tons of copper regulus for H. Bath and Son; and the Herminici from Aveiro, with 160 tons of copper for Richardson and Co.

THE TERRIBLE COLLIERY CATASTROPHE IN SOUTH WALES .-

to bank, which will probably be the case by the time this report meets the eyes of our readers. During the past week three horses were found alive in the pit; two were secured, and the other scampered away, and has notyet been captured. The other two, since being rescued, have fed remarkably well, and both were comparatively uninjured. The number of widows are said to be 63, and orphans under 12 years of age 139. The list having been ascertained to be complete, the Messrs. Davis, the proprietors of the pit, caused it be made known that the amount they had at present decided upon paying was 7s, per week to the widows of the colliers killed in the pit, and to the children under 12 years of age 2s, per week. The men who were injured by the explosion receive 5s, per week from their own benefit fund, formed at the time the colliery was first worked. The club is managed by a coamittee of colliers, and presided over by Mr. David Davis. Meetings were to be held at Merthyr, Aberdare, and Pontypridd this (Thursday) evening, the object being to promote some method of obtaining relief for the bereaved sufferers through this calamity. Deputations have waited upon Messrs. Davis to consult their feelings, and have been informed that they (the Messrs. Davis) have done all they could for the permanent relief of the sufferers, and whatever public kindness might undertake for this purpose they would gladly unite in carrying it out. It has been thought it would be too hard for Messrs. Davis to bear all the burden, and that it was only right for the public to show its sympathy and help in the good work. At Aberdare a committee has been formed, and consists of the vicer, several dissenting ministers, and a number of respectable tradesmen, to carry out the object in view. A similar plan will probably be adopted in other towns where meetings have and are yet to be held. It is said that something like 8000l. will be required for the purpose of forming a permanent fund, similiar to that formed at Risca, when 142 colliers and boys lost t to bank, which will probably be the case by the time this report meets the eye of our readers. During the past week three horses were found alive in the pit

"THE INDUSTRIAL RESOURCES OF SOUTH WALES,"-A work considerable importance is now in course of preparation on "The Industrial Resources of South Wales." The editor is Mr. HOWELL Industrial Resources of South Wales." The editor is Mr. HOWELL DAVIES, of Carmarthen, and memoirs on various industries have already been promised by Mr. Vivian, M.P. for Swansea; Major Grant Francis, Swansea; Mr. Chambers, Havod; Mr. Buckley, Llanelly; Mr. R. Kirke Penson, Ludlow; Mr. J. H. Rees, Chairman of the Llanelly Harbour Commissioners; Mr. Robertson, Hazel Hill, New Milford; Mr. Waters, mining engineer, Carmarthen; Mr. Tregenna, Pembroke Dock; Mr. Player, Melincrythan; Mr. J. Lewis, Swansea; Mr. Owen, Glogue; Mr. Hicks, St. David's; and others. Those who are willing to assist in this work should communicate with the editor, who wishes to make the book as complete as possible. editor, who wishes to make the book as complete as possible.

FOREST OF DEAN.—The penceful tone of Napoleon's speech at the opening of the French Chamber, on Monday, will have a beneficial effect upon the iron trade of this and other manufacturing districts. The dark cloud which has latterly hung over the dynasties of France and Prussia has been for a time removed by the closing words of the Emperor of the French, and thus it is hoped that, instead of looking forward to hostilities on the Continent, trade will increase at home and abroad. So long as any appearance of war existed in the quarter mentioned, depression would unquestionably show itself in manufacturing districts. The iron trade of the Forest cannot be spoken of as being so favourably placed, just now, for orders as a few months ago; neither are there hopes that an improved state of things, to any great extent, can be realised this being one of the causes. However, as yet there is no crasson for despondency, there being little or no iron in stock at the Forest Works. The Coal Trade remains good, the outputs being more than in any previous year. The majority of the workmen employed at the extensive works at Lightmoor have been thrown out of employ by the breaking of the large winding-engine used at Lightmoor. On Friday morning a mash occurred in the engine-house, and the engineer was obliged to quit his post, and make his escape. It was found that some of the principal parts of the engine were broken, so much so that it was rendered unfit for work, and it will, it is said, require some hundreds of pounds to replace. In addition to this loss, which will fall upon the proprietor, Mr. Henry Crawshay, the majority of the colliers—at least, upwards of 100—are thrown out of work, and will be so, it is feared, until the early part of next week. Mr. Crawshay, with his accustomed consideration, has found employment for as many of the men as possible at other places. The tin trade is not very brisk. Forest of Dean.-The peaceful tone of Napoleon's speech at the

#### REPORT FROM DERBYSHIRE AND YORKSHIRE.

Nov. 21.-The trade in Derbyshire, so far as Iron is concerned, Nov. 21.—The trade in Derbyshire, so far as Iron is concerned, continues quiet, and no material improvement is anticipated during the remainder of the year. There is, however, a good business being done in Coal, both for household purposes and for gas. In the southern part of the district there are now upwards of 1000 men out, without any prospect of their resuming work, as the masters, although inconvenienced, adhere to the determination, made some months ago, not to employ any Union men. During the week there has been a great deal of excitement at Church Gresley and Swadlincote, and meetings have been held for the purpose of enjoining the men to hold out. The Miners' Associations throughout the country have made a levy of 3d. per head on their members for the support of those out, and which will amount to about 500%, a week. On Tuesday, at Swadlincote, will amount to about 500% a week. On Tuesday, at Swadlincote, eight of the Unionists were sent to prison for various terms for assaulting the men at work at the Marquis of Hastings' Colliery, at Church Gresley. There is no alteration in the state of the Sheffield trades, most branches being remarkable for their quietness, and that at a time of year when it has been usual to work nearly all hours, so that the Christmas "bulling" promises to be very limited indeed. No material alteration is anticipated before the advent of the New Year, when, with Europe at peace, a change for the better will, in all probability, take place, when amongst other branches that of heavy plates will doubtless look up.

In the South Yorkshire district business generally is in a tolerably healthy state. At Milton and Elsecar the men are working full time, the rail mill in particular being kept actively going. Sheets and hoops are also in fair request, for which there has been a very good demand for a considerable time past for exportation to Russia and other parts of the North of Europe. In Coal there is a good business being done, Silkstones and the first qualities of the Barnsley seam being in most request. During the last two or three days there has been a better enquiry for shipment from Grimsby, whilst a full average tonnage is being forwarded to Goole for home parts. Owing to the depression in several of the iron and manufacturing districts there is not so much doing in engine fuel. Coke continues in fair demand, so that stocks are moved nearly as fast as turned out. All attempts at opening out the workings of the unfortunate Oaks

All attempts at opening out the workings of the unfortunate Oaks Colliery have been abandoned for the present, and the pit-bank is now as remarkable for a total absence of life as it was previously for its bustling activity. The No. 1 shaft continues at intervals to act as an upcast, sending up a great deal of gas at times. So far no one appears to be acquainted with the steps which are intended to be taken with a view to exploring the workings, with the object of recovering the bodies, or when operations will be resumed. At the new shaft being sunk at Ardsley, in connection with the colliery, an engine is being put down, for the purpose of pumping out the water, which for some time past has stopped the work of sinking. The fund in the hands of the Mansion House Committee, which exceeds 24,000/... and which was subscribed in aid of the sufferers by the Oaks and Talke Collieries, is still unappropriated. All the efforts of the Barnsley and Talke committees have been unable to obtain any part of the fund, and, as a result, the former have been obliged to give a fund and as a result the former have been obliged to much less weekly allowance to some of the widows than they would otherwise give. Seeing that in South Yorkshire there is now a per-manent fund, at the head of which are Earl Fitzwilliam, Lord Wharncliffe, Lord Halifax, and other noblemen and gentlemen, it is expected that the parties named will take the matter up, with a view to obtain-ing some declaration from the Mansion House people as to what they intend doing with the money.

THE YORKSHIRE COAL FIELDS-MICLAND RAILWAY EXTEN-SION.—That a great mistake was made in laying out the Midland Railway, in the first instance, is now acknowledged—at least so far The Terrible Colliery Catastrophe in South Wales.—
The recovery of the bodies in the Ferndale Pit, Rhondda Valley, has not proceeded so rapidly as we were led to believe at the time of writing the report which appeared in last week's Journal. At that time some 100 bodies had been recovered, and it was believed that 73 were then time some 100 bodies had been recovered, and it was believed that 73 were then time some 100 bodies had been recovered amounted to 147, and the delay has been caused from the quantity of foul gas in the pit, and the fearful steem, arising from the decomposition of the bodies. The numerous falls which took place also rendered it extremely dangerous for the exploring party to prosecute their search for the bodies alone, and, after a consultation among the mining engineer, and the four gands, each under the direction of an inling engineer, and the four gands, each under the direction of an inling engineer, and the four gands, each under the direction of an inling engineer, and the four gands, each under the direction of an inling engineer, and the four gands and are—Mr. Bedington, Bryamey; Mr. Harrison, Dibas; Mr. Morgan Joseph, Rhondda; and Mr. Kirkhouse, Bwilfa. Each gang works for 12 hours, thus giving the others 35 hours, as the removing of the debris proceeding and the contractor's level, both have been directed chiefly to Caswell's heading and the Contractor's level, both to Tessday night 24 more bodies and been recovered, and within 40 hours after the contractor's level, both to Tessday night 24 more bodies had been recovered, and within 40 hours after the direction of the ministake was also onto the ministace was some portion of the morther npart is concerned—and the etime of which had the time of the ministake was some portion of the mistakes has devolved upon those who had he time time time time to the time of the time of the man who laid it out, one is lost in endeavouring the mining engine of the man who laid it out, one is lost in endeavouring the mining engine of the man who l

natural resources of the Midland are now fast disappearing, and in less than two years will have entirely passed away. In the first place, a direct line is being made from Chesterfield to Sheffield, opening out a most important coal and iron district, and already coal mines are being sunk, and important works projected, on the route. At Sheopbridge there is to be a large figure and tyre works. The ironstone and coal of the Unstone Valley is already in course of development, whilst at Dronfield and the neighbourhood reare are to be ironworks erected, and extensions made of those already in existence. It is expected that this important line will be finished in about 18 months, or life promises to be fully as remunerative, if not more so, than any similar length in the system. Seeing Derbyshire produces fully two-fifths of the coal carring in the produces fully two-fifths of the coal carring in the interest will, in all probability, be doubled, in the from Cudworth to Barnsley will also tend to largely increase the production of coal in that locality, and already one of the largest collieries in Young to coal in that locality, and already one of the largest collieries in Young and the two shall have more to say hereafter. The above facts show the bright future that is in store for the Midland Railway, and the benefits it will conferon certain districts, which, teeming with wealth, have been unable to find an outlet for it.

districts, which, teeming with wealth, have been unable to find an outlet for it.

LOCK-OUT OF MINERS.—A large meeting of miners was held at Church Grisley. Derbyshire, on Tuesday night, for the purpose of considering the position at the 1000 men who are just now locked-out in South Derbyshire. The meeting was held in the People's Hall, and was presided over by Mr. Alice. The meeting was held in the People's Hall, and was presided over by Mr. Alice meeting at considerable length. On Friday, at the meeting of the Miners' attonal Conference, held at Durham, it was stated that between 4000, and 5000, had been distributed amongst the men during the lock-out. It was unamimously resolved that a levy of threepence per week should be made upon all members of the Miners' National Aseociation. It was estimated that the levy would yield the following amounts per fortnight from the various districts:—Souly view of the Miners' St.; Farnworth, 3100 members, 301.; Haydock, 1000 members, 201.; Oldham, 500 members, 1501.; West Yorkshire, 200 members, 201.; Oldham, 500 members, 101.; South Betafordshire, 400 members, 101.; North Derbyshire, 400 members, 201.; Oldham, 500 members, 201.; South Derbyshire, 400 members, 201.; Oldham, 500 members, 201.; South Derbyshire, 400 members, 201.; Oldham, 500 members, 201.; South Derbyshire, 400 members, 201.; Oldham, 500 members

#### REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Nov. 21.—The Iron Trade; both in the north and south of this county, is decidedly slack, and complaints are now universal. Not only are orders scanty, but the low prices make it very questionable whether profit can be made, and there is a growing disposition to look with grave anxiety, if not with apprehension, to the coming winter. As yet pig-iron can hardly be said to be decidedly lower, but there is secretly a sale taking place; and, unless an interest and the property of the property o winter. As yet pig-iron can hardly be said to be decidedly lower, but there is scarcely a sale taking place; and, unless an improvement is experienced, buyers will, probably, hold out for a reduction of price at the close of the next purchases. The intended reduction of wages in the ironworks in the North is naturally attracting attended to the control of the cont of wages in the ironworks in the North is naturally attracting attention, and a very general opinion is expressed that a similar step will be necessary in Staffordshire. The question is whether if wages were reduced capitalists would be induced to order iron to hold, or whether purchasers would anticipate their requirements. The subject will be anxiously debated during the next few weeks. The Hardware Trades are generally slack, and short time is prevalent. The Pottery Trade, too, is dull, and, and except the Shoe Trade of Stafford and Stone, business must be regarded as decidedly slack in this and the adjacent counties.

and Stone, business must be regarded as decidedly slack in this and the adjacent counties.

The tardy appearance of the Reports of the Mines Inspectors again calls for protest against the wretched feebleness which seems to mark almost all the actions of our executive Government. The details of accidents which happened during 1866 have lost almost all interest by Nov., 1867. Why cannot the reports of the Mines Inspectors, like those of the Factory Inspectors, be printed half-yearly, and published, as they easily might be, a month after the date to which they come? The reports themselves also are, as a rule, too long, too full of detail, and want generalising and condensing. Some remarks by come? The reports themselves also are, as a rule, too long, too full of detail, and want generalising and condensing. Some remarks by Mr. Wynne, Inspector for North Staffordshire, as to the necessity of securing a superior class of managers, suggests anew what we have urged in this letter—that managers of mines should organise themselves, and meet and discuss the causes of accidents, and the means of prevention, from time to time. They should make the avoidance of ac-cidents, as far as possible, a point of professional honour, and in-stead of putting themselves in an attitude of hostility to Inspectors, and to those who deplore the waste of human life in mines, lead the way in suggesting, considering, and trying every means of reducing the awful death-rate of the miner's life. One miner in 216 was killed last year, to say nothing of those injured. It is reasonable to suppose that the average working life of a miner is 20 years, which would give 20 deaths for every 216 employed, or, in round numbers, I in 10 prematurely sacrificed.

The accident at the Homer Hill Colliery, page Stouwhilder de-

1 in 10 prematurely sacrificed. The accident at the Homer Hill Colliery, near Stourbridge, described last week, has already resulted in ten deaths, to which, at any rate, one addition is anticipated. During the week Mr. Baker, the district Inspector, has been down the pit four days, remaining the district Inspector, has been down the pit four days, remaining one day for six hours. The fall of coal is said to have been of very great extent. The enquiry before the Coroner is adjourned to Dec. 5. In reference to the accidents in North Staffordshire, noticed last week, in the case of the Berry Hill Colliery, the jury recommended that proceedings should be taken against Mr. Bowers, the owner, on account of the laxity of discipline manifested. At the inquest, in reference to the explosion at the Boteslow Colliery, it was proved quite clearly that both firemen knew there was gas in the pit, and that they were told by the underground bailiff and the butty that lamps must be used, yet candles were given out. It was clear that the preliminary examination of the workings with a lamp was a mere form, for while it was going on the men were being supplied ere form, for while it was going on the men were being supplied ith candles. The two firemen were committed for manslaughter. An important and influential conference was held on Monday, at

An important and influential conference was held on Monday, at Wolverhampton, to consider how the educational requirements of the Factory Acts can be carried out. The Karl of Lichfield (Lord Lieutenant of Staffordshire) presided, and Lord Lyttelton (Lord Lieutenant of Worcestershire, and President of the South Staffordshire Association for Promoting Adult Education, under whose anspices the meeting was called) was present. Mr. R. Baker, chief inspector of Factories, gave explanations, showing every disposition to assist those who are disposed to carry out the requirements of the law to do so with the least possible difficulty. The want of more schools, and especially of more teachers, was strongly urged by statistics, Mr. J. C. Tidesley reading an claborate paper on the existing means of education, and the increased provision which the Factory Acts and the Hours of Labour Regulation Acts will require.

The Wolverhampton Trades' Council, an association of workmen, have requested the Wolverhampton Chamber of Commerce, as representing the employers, to appoint a committee of their body, who, with an equal number of members of the former body, should form "a deliberative council, for the purpose of uniting both branches of the productive industry of the borough." The Chamber of Commerce has made the appointment, and thus the workmen's and masters' representatives will meet on equal ground.

GOLD IN NOVA SCOTIA.—The Sherbrooke (N.S.) Mines yieldedelst month over 1200 ozs., the largest proportion being contributed by the Palmerston, Wellington, Derby and Hayden, and Dominion Companies. The mean for this district for the 12 months ending Sept. 30, 1867, was \$7.47 (or about 30s.) daily per head.

COMMERCIAL ENTERPRISE IN COSTA RICA.—The Executive of this thriving little Republic are leaving no stone unturned to secure those who aid in the development of its almost boundless resour The Interceeanic Railroad, the importance of the establishment of which was specially referred to the articles on the Mineral Resources which was specially referred to the articles on the Mineral Resources of Costa Rica, published in the Mining Journal some few months since, has been already commenced, and a decree of the enlightened President, Senor Jose Maria Castro, of the most favourable character has since been promulgated, wherein it is provided that the Bay of Limon shall be opened to foreign and coasting trade as the principal port of the Republic of the Atlantic coast; that any vessel, bound from whatever port, may under a friendly or neutral flag import or export every class of merchandise, except those subject to prohibition or monopoly, and deposit and transport them freely, under such regulations as the Government may establish; that all vessels that anchor in the said Bay of Limon shall be free of all duties or imposts for tonnage, anchorage, or roll, as well as for docuvessels that anchor in the said Bay of Limon shall be free or all duties or imposts for tonnage, anchorage, or roll, as well as for documents or certificates which may be issued; that after the Costarican Railway Company have built their docks or warchouses, no Custom duties shall be recovered before merchandise and produce for consumption have left said docks or warchouses; and that the Secretary of State for the Navy Department shall give due orders for the early removal of the authorities and public offices from Moin to the new removal of the authorities and public offices from Moin to the new port of Limon. The importance of this decree in connection with the development of the mineral wealth of the Republic can scarcely

be over-estimated, and this, in addition to the favourable effect which it will produce upon the general commerce of the Republic, will aid materially in attracting capital for the development of both branches of industry.

MINING, METALS, AND MINERALS-PATENT MATTERS, BY MICHAEL HENRY,
Patent Agent and Adviser, Memb. Soc. Arts, Assoc. Soc. Eng

Patent Agent and Adviser, Memb. Soc. Arts, Assoc. Soc. Eng.
The recent applications for patent include the following, likely to
interest those engaged in the metallurgical and metallic arts:—Pigott, York,
interest with metal or other material.—HALL, Birmingham, locks.—WILSoc. Bolton, furnaces.—LUNIE, Yarmouth, apparatus for burning mineral
Soc. Bolton, furnaces.—BLANE, Birmingham, clack and bucket-door pieces for
pings.—HADGETTS, Stafford, tuyeres for blast-furnaces.—BUXTOS and GARDAM,
pungs.—HADGETTS, Stafford, tuyeres for blast-furnaces.—BUXTOS and GARDAM,
pungs.—HADGETTS, Stafford, tuyeres for blast-furnaces.—BUXTOS and GARDAM,
pungs.—HADGETTS, Stafford, tuyeres for blast-furnaces.—BUXTOS and GARDAM,
pungs.—ALFORDETTS, Stafford, burnach,
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pungs.—ALFORDETTS, Stafford, burnach,
pungs.—BUXTOS and BUXTOS AND B

Mr. WILLIAM HENRY DAWES, of Stafford, ironmaster, has specified Mr. WILLIAM HENRY DAWES, of Stafford, ironmaster, has specified spine improvements in the manufacture of iron. The invention consists in treating melted cast-iron, by passing a current of electricity through it after having implied cast-iron, by passing a current of electricity through it after having been refined. Melted cast-iron is taken direct from the blast-furnace, according to see method of refining from. After the melted cast-iron has been subjected to see refining process until it has been sufficiently refined, it is poured into moulds, as arrent of electricity is manediately passed through it while still in a seled state. The current of electricity is passed through the melted refined so that the selectricity is produced superior for manufacturing purposes. The current mains liquid. By the passage of the electricity through the melted refined iron manufacturing purposes. The current of electricity is employed is obtained from a galvanicor voltaic battery; but electricity from other sources may be employed.

A patent has been specified, as a communication to HENRI ADRIEN A patent has been specified, as a communication to HENRI ADRIES BONSVILLE, for metallic railway-sleepers and means of fixing rails on the same the improvements consist in placing between the sleepers and the under part of the rail a flat iron plate, by means of which the inclination is given to the rail; the whole is then connected together by means of two wormed boits, which are placed on both sides of the rail, held firm by their head or upper end, and which extend through the metal plate and the sleeper, to srew into an iron plate placed under the sleeper, to augment its thickness. The junction might also be effected by means of a single wormed both, fixed on one side of the rail, also the rail in position, instead of the second boit, and would be fixed or that side to the sleeper by a rivet.

Mr. WM. ADAIR, of Liverpool, has patented and specified an inven-Mr. W.M. ADAIR, of Liverpool, has patented and specified an invention relating to pumps. He proposes to construct a double-acting pump, consisting of a closed cylinder, containing a spear-box or plunger, of an open cylinder, and of a feed-pipe, inserted at the bottom of the cylinders, and carried up between them or else outside, and having communication with the open cylinder at the bottom, and with the closed one near the top, the whole being connected tegether. The plunger consists of two cup leathers, placed back to back, and is stached to an ordinary piston-rod. The top of the closed cylinder consists of a metal cover, fitting closely round the plunger-rod, yet so as to allow of its dipping upon it when forced upwards by the water to be discharged during the seconding stroke, at the conclusion of which it again descends to its ordinary paition, and rests upon the flange or rim at the top of the cylinder.

#### ATMOSPHERIC GAS.

An improved apparatus for carbonising atmospheric air is being largely introduced in America, which is in principle similar to that of Mr. Mille, of Paris, and also to that of Mr. Mongreul (both described long since in the Mining Journal); indeed, the whole of the atmospheric gas machines have the same principle in common—that

gribed long since in the Mining Journal); indeed, the whole of the atmospheric gas machines have the same principle in common—that of forcing the air through light petroleum, at an ordinary temperature, taking up therefrom sufficient vapour to form an illuminating mixture. The great difficulty and defect common to them all, as at present constructed, is the rapid cooling of the oil by evaporation to a temperature at which (unless extremely light) it can evaporate no longer; a difficulty which, of course, is not felt in warm weather, when the atmosphere supplies heat in abundance. Many efforts have been made to restore the evaporating temperature in coid weather, but the difficulty has been to keep the warmth greaty neither deficient nor excessive, without constant attention. The applied warmth must be adjusted so as to exactly overcome the refrigeration attendant upon the supply of the required number of burners; for if in the least degree too liftle, the temperature will ateadily fail until the lights go out from deficiency of vapour; while if in the least too much, the temperature will increase until be lights smoke from excess of vapour.

In the Safety Gas Machine invented by Mr. Hiram S. Maxim, of Boston, the circles of the same o

and lets the suspended valve open and supply gas to the heating burner in the proportion required; a small independent jet having meanwhile been kept burning, and in such a position as to re-light the heating burner, whenever gas is supplied it.

The machine of Mr. Maxim will be at once recognised as Mille's apparatus, with the all-important improvement of a temperature regulator, the use of which, in one form or another, is essentially necessary wherever atmospheric gas is used. For general purposes, however, artificial pressure is necessary to drive forward the carbonised air to the burner, and several machines of this class have already been successfully tried in the United States—those of Drake's machine is considered to be the simplest and least liable to derangement or accident of all that require motive power other than gravity. It consists of a wetmeter wheel, driven by a weight directly, without gearing, and constituting all the machinery of the apparatus. The air is driven by this wheel into a flat tast-irn oil tank, throughout which it is circulated by a labyrinth of partitions, passing all the way between and through closely suspended cloths, which dip in the oil, and keep themselves charged with it by capillary attraction. A guage cock is set so as to turn the air through all or different portions of the internal labyrint, at the pleasure of the manager, in order to draw more or less upon the oil, according to its temperature and density, and to maintain an illuminating mixture at all times. The asperation of the simple air-pumping mechanism from the hydro-carboniser allowing any part to be reached or taken out by itself without difficulty. The absence of all machinery in the hydro-carboniser, and tightness of the latter are sufficient locases its advantages to be very generally appreciated.

The American Air-Light Company's apparatus, like that of Drake, is very compact, strong, well designed, and thoroughly built. It is, perhaps, better adapted for heavy work than any other we could name, having

aspearate drum, filled with capillaries, and without machinery. It has also a separate drum, filled with capillaries, and without machinery. It has also a balb in the gas-pipe, stuffed with sponge, which serves to retard and equalize the current excited by the discharge from the burners, and to arrest any possible return of combustion through the pipes, and also to arrest any possible astended the office of the pipes in consequence of a vacuum formed by the condensation during repose. The temperature regulator is undoubtedly a step in the right direction, not only giving another proof of the great mechanical skill and ingenuity of the Americans, but also providing almost all that was required to cable atmospheric gas to be brought luto general use.

SEPARATING LEAD FROM ORES .- An invention which relates to the treatment of those minerals which contain blende in combination with galena, such as the Anglessea blue-stone, has been patented by Mr. PETER SPENCE, of Newton Heath, near Manchester. It consists in first extracting the lead from the ore and then manufacturing the metallic sins by the usual process. From ores of this nature the lead cannot practically be separated by mechanical means, and it renders the ore of less value for the extraction of sinc, owing to its liability to sing in the retorts; he, therefore, first extracts the lead by solution. He first grinds the ore until it will pass through a siere of 3800 holes to the square inch; he now prepares hydrochloric acid free from sulphuric acid, and of the strength of 42 Twaddle, or specific gravity 1-21, and thus considerably stronger than hydrochloric or muriatic acid of commerce; he then stirs this in the cold state with the powdered ore, using it in proportion to the lead, or sulphide of lead. If the lead in the ore amounts to 10 per cent, he mes acid equal to one-fourth the weight of the ore, or more or less, accordingly as the lead is in greater or smaller proportion. Having thus stirred the powdered ore and acid into a paste he allows it to stand for some time, say one week, treatment of those minerals which contain blende in combination

and then stirs it well in successively added quantities of boiling water, until all the chloride of lead which has been formed is dissolved; this chloride rapidly crystallises out of the solution, which may then be heated and used in the place of fresh boiling water. The ore is now ready to be calcined in the usual manner adopted for blende or sulphide of zinc, and as sulphur becomes liberated it may be collected for the manufacture of sulphuric acid by any known means. Chloride of lead, which is a result by the above-described process, can be used either for the production of lead or for the manufacture of oxychioride of lead, as is well known. Such ores or minerals as above mentioned also frequently contain a certain amount of silver, gold, and copper, which are left after the zinc is extracted, and these substances may be recovered by the usual means.

SMELTING SUPERSEDED.—A process of separating metals from their ores, which, it is claimed, is at once easy, rapid, and more complete than any previously in use, has been invented by Dr. A. T. Dozier, their ores, which, it is claimed, is at once easy, rapid, and more complete than any previously in use, has been invented by Dr. A. T. DOZIER, of Dutch Flat, California; it consists in mixing with the ores certain chemical agents, bringing and holding the mass at a low red-heat, until the affinities forming the metalliferous compound are destroyed. The mass become a stiff paste, and on cooling resembles scoria. The metals, silver, copper, lead, composing the ore, take on a globular form, and remain to a great degree separate in the mass, not forming an alloy. The copper appears in an oxidised granulated form. The paste on cooling becomes exceedingly brittle, and is easily reduced to powder; the silex and non-metalliferous portion being washed away leaves the silver; gold, copper, &c., in separate masses to be collected. Experiments were made on Camanche ore, from Mono, and on Ophir and Reese River ore. These ores are compounds of gold, silver, and copper. The ore from the Camanche has hitherto baffled all attempts to reduce it, yet with this process two experiments were made on it with most marked and satisfactory results. On pulverlising the brittle mass in a mortar, and washing away the earthy residuum, about 80 per cent. of the silver contained in the ore, in a nearly pure metallic form, was obtained. The remaining portion of the silver with a trace of gold remained unseparated with the copper, the copper being in an oxidised granulated form. The copper with the gold and silver unseparated from it can be run into bars, and its fineness determined. The silver obtained pure can also be run into bars, and its fineness determined. The silver obtained pure can also be run into bars, and its fineness determined. The silver obtained pure can also be run into bars, and its fineness determined. The silver obtained pure can also be run into bars, and its fineness determined. The silver obtained pure can also be run into bars, and its fineness determined. The silver obtained pure can also be run into bars, and its fine

WHITE LEAD DIRECT FROM THE ORE,—Mr. Bonneville, of Paris, has recently provisionally specified an invention for obtaining white lead (carbonate of lead) direct from the ore. This is accomplished by pouring the moiten metal into cold water, to render it as porous and bulky as possible; it is then dissolved in sulphuric adid, and the sulphate is treated with pyroligneous or oxalic acid, combined or not with tincal, dissolved in water, and then dried over the fire on trays. The vossels employed are either made of stone or wood, lined with lead, which become coated with a protecting coating of lead.—Mining and Scientific Press. (U.S.)

#### To Colliery Contractors, and Others

THE PROPRIETOR of the EXTENSIVE ANTHRACITE COAL

THE PROPRIETOR of the EXTENSIVE ANTHRACITE COAL MINES, known as CLOUGH COLLIERIES, is prepared to enter into arrangements with parties willing to CONTRACT FOR THE IMMEDIATE WORKING OF THESE MINES.

They comprise about 2300 acres of land, situate in the LEINSTER COAL DISTRICT, within three miles of Castlecomer, in the County of Kilkenny. Besides others, the exceedingly valuable seam, known as the Four-feet or Jarrow Seam, is largely developed, and can be won at the moderate depth of between 40 and 50 fathoms.

The mines are held under lease for the unexpired term of thirty-on years, from March, 1854.

For further particulars, apply to the proprietor, Mr. PATRICK FENLON, Clough, Castlecomer; or to Mr. J. B. KENNEDY, solicitor, 61, Mountjoy-square, Dublin.

FOR SALE, BY PRIVATE CONTRACT. SPARE MACHINERY, &c., viz.:-

ONE 80 in. cylinder PUMPING ENGINE, with THREE BOILERS and bance-bob, &c., complete.

one-bob, &c, complete FUNCING ENGINE, with THIEE BOILERS and Ba-nec-bob, &c, complete ONE PING ENGINE (Bull), with TWO BOILERS, &c. ONE 24 in. cylinder WINDING ENGINE, BOILER, cage, &c. ONE 26 in. cylinder WINDING ENGINE, TWO BOILERS and steam capstan

ONE 26 in. cylinder WINDING ENGINE, TWO BOILERS and steam capstan titached.

ONE 36 in. cylinder STAMPING ENGINE, BOILER, &c., with cast-iron axie or 60 heads, nearly new; 14 ft. calciner, complete.

Between 300 and 400 first-rate PUMPS from 6 to 20 inch, with windbores, natching, it pieces, &c., &c., 14 plunger poles from 7 to 20 inc., with stuffing boxes and glands to fit.

A quantity of hammeed iron rod plates, rod plus, staples and glands, &c; a quantity of pitch pine and other main rods from 10 to 16 in.; 2 capstans and shears; capstan rope, chains, and a variety of other articles.

For viewing the same, apply to the Agenta.

Further particulars may be had of Mr. WM. POLKINGHONE, the purser, at the mine; or of WM. West, Esq., C.E., Tredenham House, St. Blazey.

Dated Par Consols Mine, Par Station, Cornwall, 21st November, 1867.

T L E Y s, ESSEX STREET, MANCHESTER. Twenty-five years' experience as

VALUER, AUCTIONEER, AND AGENT for the purchase or sale of MILLS, WORKS, MINES, ESTATES, LAND, BUILDINGS, STEAM ENGINES, ENGINEERS' TOOLS, BAILWAY AND CONTRACTORS' PLANT, MACHINERY, &c. [See his Monthly Circular.]

#### HERBERT AULT, ENGINEER, DRAUGHTSMAN AND PATENTEES' ASSISTANT,

DRAUGHTSMAN AND PATENTEES ASSISTANT,

VALUER OF MACHINERY, IRONWORKS, RAILWAY
and COLLIERY PLANT, and other works; DESIGNER and CONTRACTOR for every description of RAILWAY and COLLIERY PLANT, CONTRACTORS' and other LOCOMOTIVES, HOT AIR and HOT WATER APPARATUS, &c.
Preparer of models &c., for patentees, and every other assistance given upon
the most moderate terms. Estimates given for taking down and erecting works
and other machinery.
Applications addressed to HERBERT AULT, Netherton, near Dudley, will meet
with prompt attention.
N.B.—HERBERT AULT begs to call the attention of gentlemen about to put up
greenhouses or conservatories to his large assortment of designs at exceedingly
ow pricess.

#### RED LEAD SUPERSEDED.

NEW "ANTI-CORROSIVE METALLIC PAINT."-NEW "ANTI-CORROSIVE METALLIC PAINT."—
For some years past Messrs. PEACOCK and BUCHAN have been making
careful experiments with an ECONOMICAL and entirely new metallic mixture
of an ANTI-CORROSIVE nature, to supersed RED LEAD as an UNDERCOATING
for iron ships bottoms, and for priming and painting their hulls outside and
in, also all kinds of out and indoor ironwork, railway plant, &c., as well as for
outdoor woodwork, stone, and stucco, &c. Any colour paint will lay on over it.
The proprietors have now perfected this metallic paint, and it will be found
considerably cheaper than RED LEAD, at the same time effectually preserving
the iron from rust. scaling, and decay.
It is ground in oil by steam-power, and packed in ironbound casks from 1 to
3 cwis. seah. Price, delivered at Southampton, 32s. 6d. per cwt., packages included. Apply, in London, to W. J. MOYSEY, 39, Upper East Smithfield; and,
in Southampton, to Messrs. PEACOCK and BUCHAN, or their accredited sgeats
in all the principal cities and seaports of the kingdom.

A NALYSES OF COAL, CANNEL, MINERAL OILS, and all OIL PRODUCING MINERALS are UNDERTAKEN by A. NORMAN TATE, F.A.S.L., &c.,
ANALYTICAL and CONSULTING CHEMIST, and CHEMICAL ENGINEER (Author of "Petroleum and its Products," &c.),
MOLD, NORTH WALES.

Plans and estimates for oil and chemical works prepared, and their ore carefully conducted.

R. T H O M A S T H O M ASSAYER, &c., SWANSEA. THOMA 9

ASSAY OF FICE AND LABORATORY,
No. 2, CROWN CHAMBERS, CROWN COURT,
THREADNEEDLE STREET.
CONDUCTED BY W. T. RICKARD, F.C.S., &c.
(Late MITCHELL and RICKARD).
Assays and analyses of every description of mineral and other substances, manures, &c.
Gentlemen going abroad for mining purposes instructed in assaying, and the most improved methods of reducing gold, silver, and other metals.
MINING PROPERTIES INSPECTED AND REPORTED ON.

M R. J. S. M E R R ANALYTICAL CHEMIST, SWANSEA. H. D. HOS MINING ENGINEER, LAND AND

AND MINERAL SURVEYOR, CINDERFORD, NEWNHAM. Gentlemen requiring reliable and correct information respecting any Coal or Iron Mine Property in the Forest of Dean may obtain it on application. Surveys, Plans, Reports, and Valuations on the usual moderate terms. RAILWAY WAGON WORKS, BARNSLEY

MESSES. G. W. AND T. CRAIK

ARE PREPARED TO SUPPLY COAL AND COKE WAGONS OF EVERY DESCRIPTION,

Either for cash, or by preferred payments through wagon-leasing companies. WAGONS PROMPTLY REPAIRED.

BOWLING IRON COMPANY,

BEADFORD, YORKSHIRE.
BEST CRUCIBLE CAST-STEEL TYRES, AXLES, CRANK
AXLES, BOILER PLATES,

Also COG WHEELS, and other CASTINGS. This company is prepared to furnish the above-mentioned articles in CAST/STEEL of a very superior quality, made principally from their own well-known."

"BOWLING IRON."

Also BOWLING WROUGHT-IRON SOLID WELDLESS TYRES, of any size and to any section.

THE BEVERLEY IRON AND WAGON COMPANY

(LIMITED),

MANUFACTURERS OF RAILWAY WAGONS, WHEELS
AXLES, LORRYS, CARTS, WOOD WHEELS, &c., IRONWORKS, BEVERLEY, YORKSHIRE.

NORTH CENTRAL WAGON COMPANY, ROTHERHAM.

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ROTHERHAM.

DESCRIPTIONS to be SOLD or LET.—FORTY 8-ton COAL WAGONS (only run for three months) TO BE LET as SECOND HAND. A FEW COKE WAGONS, in good condition, TO BE LET as SECOND HAND.

Application to be made to Mr. BARRAS, Secretary, Rotherham.

THOMAS EDINGTON AND SONS, PHŒNIX IRONWORKS, GLASGOW,

PHENIX IRONWORKS, GLASGOW,

MANUFACTURERS OF ALL KINDS OF GAS AND WATER
PIPES, BRANCHES, BENDS, WATER-TRAPS, TANK-PLATES,
VALVES, and GENERAL CASTINGS.
ALSO,
RAILWAY CHAIRS AND SLEEPERS, AND GRIFFIN'S PATENT
PERMANENT WAY.
LONDON OFFICE,—63, OLD BROAD STREET.

WILSON'S PATENT SMOKELESS FURNACE. LICENSEES AND SOLE MANUFACTURERS

HICK, HARGREAVES, AND CO., SOHO IRONWORKS, BOLTON. These furnaces are now in full operation, and are giving most satisfactory results, both as regards economy in fuel, complete consumption of smoke and small wear and tear of furnace. They may be seen in daily operation at these works.

UTILISATION OF COAL DUST AND MANUFACTURE OF ARTIFICIAL FUEL.

BARKER'S PATENTS

BARKER'S PATENTS.

THE LONDON PATENT COAL COMPANY (LIMITED) having purchased the sole rights to these patents throughout the United Kingdom, are now granting licences to coal owners and others for the use of the invention.

The process is simple and inexpensive; the cost of manufacture, including the amalgamating material, being only 2s, per ton.

The fuel is without smell, and is available for all the uses of ordinary coal. It occupies 3s cubic feet of space per ton only, as against 42, the Admiralty measurement for coal. In the various tests it has undergone it has in every instance beaten similar round coal in evaporative power, weight for weight.

For particulars of these trials, and every information respecting the patents, apply to the Managing Director, or the Secretary, 26, Martin's-lane, Cannon-street, London, E.G.

#### COMPRESSED (BIRD'S PROCESS)

(BIRD'S PROCESS)

CAN BE MADE EVEN BY HAND-PRESS LABOUR AT THE PIT'S MOUTH, or at any WHARF or YARD where COAL or COKE DUST is obtainable.

The loss of dust by frequent transport, waste of "smalls" from falling unconsumed between the furnace-bars, or being driven up the chimney by the draught, and consequent choking up of flues, is diminished by this process. The foreign matter in admixture being but one-half per cent, to the ton, and of a nature to ensure perfect combustion, the coal or coke treated remains unspoilt. Drying is very rapid, and no artificial system needed.

Giuten, cement, and all ingredients needed for mixing can be supplied in bags as required.

License fee, fic; royalty, 3d, per ton.

JAMES BIRD, No. 2, LAURENCE POUNTNEY HILL, CITY, LONDON.

BAGILLT OIL COMPANY (LIMITED), FLINT.

MANUFACTURERS OF BLACK GREASE FOR COLLIERY WIRE ROPES, TRAMS, WAGONS, &c., £5 PER TON / O T TORCH AND LAMP OIL, 1s. PER GALLON (Casks free).

LUBRICATING OIL, 1s. PER GALLON (Casks free). IMPROVED APPLICATION OF WATER POWER.

THE TURBINE.

MAC ADAM BROTHERS AND CO., ENGINEERS, SOHO FOUNDRY, BELFAST, after twenty years of experience, have brought heir IMPROVED TURBINE to great perfection.

It is applicable to all practicable heights of fail, giving much greater power roun the water than any other kind of water-wheel.

On low falls it has the great advantage of not being impeded by floods or askwater.

ackwater.
It is particularly well adapted for situations where the quantity of water is ariable, and where all other wheels fail.
Its motion is extremely regular, and, when desired, a governor can be applied offectively.

This wheel is at work in a great many places, to which reference will be given PATENT IMPROVED PICKS,

FOR COLLIERS AND MINERS.

MADE OF WROUGHT-IRON, YELLOW METAL, AND MALLEABLE CAST-IRON. For terms and information, apply to the patentees,-

F. W. DAHNE, C.E., and Manager of Messrs. Vivian and Sons' Spelter DAVID THOMAS, Mineral Agent, Cwm Avon Works, Taibach,

#### DYNAMITE, OR NOBEL'S PATENT SAFETY BLASTING POWDER, May now be had from

MESSES. WEBB AND CO., CARNARVON,

Sole consignees from the patentee.

This powerful BLASTING AGENT will not explode from a spark, or concus ion alone, but requires the combined effect of both, and is fired by a strong ercussion cap and ordinary fuse. In a compressed state it may be fired in dampioles, or under water.

Force, SEVEN TIMES that of the BEST GUNPOWDER. It will shiver to pieces east or wrought-iron, or the toughest teak timber. No amping is required. It is by far the safest explosive for blasting purposes yer discovered.

NITRO-GLYCERINE, OR NOBEL'S PATENT BLASTING OIL.—The EXPLOSIVE FORCE of this BLASTING OIL is TEN TIMES that of GUNPOWDER, and the ECONOMY and SAVING in TIME, LABOUR, and COST in removing granite and hard rock, in sinking shafts, driving tunnels, and opening forward in close ends is immense.

It will not explode from a spark or fire, but from concussion alone, and is consequently much less dangerous than gunpowder or gun-cotton.

Being heavier than water it sinks to the bottom of a wet hole, no other tamplace the a water being required.

Being heavier than water it sinks to the bottom of a wet noie, no other tampling than water being required.

One charge of this blasting oil, which is now being used with wonderful effect in all the largest slate quarries in North Wales, will displace as much slate rock as four or five charges of gunpowder; and its great force, acting on a large quantity of good slate rock, shakes and displaces it at the natural joints, or cracks, without damaging the slats nearly so much as the more numerous blasts from any other blasting material would do.

This invaluable quarrying agent may now be obtained from Messrs. Webb and Co., Carnarvob, sole consignees from the patentee.

THE GOLD MINES OF NOVA SCOTIA.

UNDER OFFICIAL PATRONAGE.

Now in the press, and will be issued early in December A POPULAR GUIDE, OR HANDBOOK, FOR TOURISTS,
MINERS, AND INVESTORS, INTERESTED IN THE GOLD MINES
OF NOVA SCOTIA.

By A. HEATHERINGTON,
Author of "Cosmopolite's Statistical Reviews," &c., &c.

Copies can be had at the Mining Journal Office, 28, Fleet-street, London,

#### In Chancery.

BAINES VERSUS EYTON.-FLINTSHIRE COAL FIELD.

BAINES VERSUS EYTON.—FLINTSHIRE COAL FIELD.

HANMER COLLIERY, near MOSTYN and HOLYWELL.

TO BE DISPOSED OF, BY TENDER (pursuant to an agreement made between the parties in the above-mentloned Cause), the LEASEHOLD INTEREST in this VALUABLE COLLIERY, situate on the estuary of the River Dee, on the line of the Chester and Holyhead Rallway, 18 miles from Chester, about 1½ from the Mostyn station, and 10 from Ralyi, and distant by water about 20 miles from Liverpool and Birkenhead, with a convenient shipping place belonging to the colliery on Lianerch-y-mor Gutter, which has been deepened at considerable cost by the present owners.

The colliery extends under about 2906 statute acres, and it is very probable comprises most, if not all, the seams known and worked in the district, and at the Mostyn Collery, of Messrs. Taylor and Co., which it adjoins on the west.

The seams which have been opened are the Two Yard Bychton, the Soft Five Quarter, the Hard Five Quarter, the Stone Coal, the Durbog, and the Two Yard Mostyn. The thickness of these seams amounts in the aggregate to about 30 ft., none of them being of a less thickness than 4 ft., and the two last-named seams being each upwards of 6 ft. thick.

The Royalty also contains, it is believed, the Cannel Seams.

For the whole of these coals, forming an aggregate section of great thickness, there is a never-failing demand, especially in Liverpool and Birkenhead, for steam, gas, and other purposes. In the immediate neighbourhood of the collery there is a great quantity of ironstone and limestone, the district offers every facility for iron manufacture, and from some of the seams of coal now being worked can be produced coke peculiarly suited for iron smelting.

The pics communicate with the Chester and Holyhead Railway by means of branches, and with the shipping place on the premises at Lianerchy-y-mor.

The lease is for a term of which 37 years are unexpired; the royalty is 1-14th of the selling price of the coal at the pit's mouth, until the annual sum of 21000 thus HANMER COLLIERY, near MOSTYN and HOLYWELL.

this the royalty is 1-21st part of such selling price. The minimum rent is £1000 a year.

The valuable plant, the bulk of which is quite new, will be included in the sale. The proprietors do not bind themselves to accept the highest or any tender. The lease may be inspected at the offices of Messrs. Helps, Parker, and Bircu, solleitors, Chester, to whom, or to Messrs. Roberts and Dickson, solicitors, Chester, tenders must be sent in on or before Dec. 7, 1867.

The colliery plans and workings may be seen and inspected, and further information obtained, at the Hammer Colliery, Mostyn, on an appointment bying made with Mr. W. Y. Chaig, of Milton House, Alsager, Stoke-upon-Trent Staffordshire.

MINING PLANT FOR SALE.

TO BE SOLD, BY PUBLIC AUCTION, at the CONLIG MINES, NEWTOWNARDS, COUNTY DOWN, on Wednesday, the 4th day of December next, at the hour of Eleven o'clock A.M., if not previously disposed of, and of which due notice will be given, the ENTIRE MINING PLANT, com-

prising—
A beautiful CORNISH PUMPING ENGINE, 36 in. cylinder, 8½ ft. stroke, with TWO tubular BOILERS, 26 ft. long, and 5 ft. diameter.
A double-acting condensing ENGINE, 36 in. cylinder, 5 ft. stroke, with tubular BOILER, 31 ft. long, and 6 ft. diameter.
A splendid lathe, a crushing-machine, pumps, chains, blocks, pulleys, rais, kibbles, &c., of which printed catalogues may be had on application of the printed catalogues of the control of the printed catalogues of the control of the printed catalogues of t

TO BE SOLD, BY PUBLIC AUCTION, on the 19th December, 1867, at the offices of Mr. Gautier, notary, No 217, Rue St. Honoré, Paris, THE COAL MINES belonging to the COMPANY OF SANTA ANA,

Situate in SPAIN, in the ASTURIAS, On the two shores of the River Nalon, 40 kilometres (about 25 miles) from Gijon,

On the two shores of the River Nalon, 40 kilometres (about 25 miles) from Gijon, a seaport on the ocean.

They consist of 220 perteuencias, comprising a total superfices of 2800 hectares (about 700 acres), producing coal of the first quality, and presenting a richness and depth in the layers of beds, leaving nothing to be desired, and may be worked on a level—that is to say, without sinking shafts.

100,000 tons a-year may be extracted, at the cost price of 6 frs. (4s 10d.) per ton. To these mines are connected—1st, a railway tram of 7 kilometres (about 4½ miles) in length, together with 5000 metres (about 5500 yards) of iron tramway, serving for the extraction and transport of the coal.—2d, four dwellinghouses for the engineers and superior officers.—3d, three dwellings for the overseers, and six houses for the workmen, forming together 44 habitations.—4th, 30 hectares (about 75 acres) of land, serving to work the mines.

The whole forming a single lot, the upset price of which is 300,000 francs (£12,000), with the facility for the liquidator, in case of no offers being made of lowering by degrees the upset price, and proceed with the sale at the same meeting on the upset price then agreed upon.

TO BE SOLD, at the same time, forming a second lot:—

AMANUFACTORY and WORKSHOPS, the construction of which is in a very advanced state, and situated at 10 kilometres (about 2½ leagues) from Gijon, on the Langres Railway, at the upset price of 40,000 frs. (£1600), with the same conditions as above.

And as a third lot:—

And as a third lot:—
1.—A MACHINE for WORKING the COAL, entirely new, and which cost
65,000 frs.—2. A MACHINE (Bérard) for CLEANSING the SMALL COAL, upset price 30,000 frs. (£1200), with the same conditions as above.
For further particulars, apply to Mr. Jacquinot, the liquidator for the sale
and proprietor, at Darney (Vosges, France), and to the above-namer, notary,
Mr. Gautier.

TO BE SOLD, BY PRIVATE CONTRACT, all those well-known iron founders' and HAMMER MILL WORKS, with the STOCK of IRON, STEEL, &c., situate in ST. AGNES, CORNWALL; also the MANAGER'S RESIDENCE, GROUNDS, and LABOURERS' COTTAGES, forming part and parcel of the said establishment.

Further particulars may be known on application to Messrs. HITCHINS and OPIE, St. Agnes; or Mr. S. T. G. Downing, Solicitor, Redruth.

Dated St. Agnes, Nov. 12, 1867.

TO MINE ADVENTURERS AND AGENTS.

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THE UNDERMENTIONED R L

THE UNDERMENTIONED

ENGINES AND MATERIALS,

At the following very LOW PRICES:

ONE highly-polished 40 inch cylinder PUMPING ENGINE, 9 feet stroke, with 11 ton boiler, in first-rate condition £ 300 0 0

ONE very bright 50 inch cylinder PUMPING ENGINE, 10 feet stroke, with 12 tons of boilers, first plees of main rod and caps, in excellent condition

ONE 40 inch cylinder STAMPING ENGINE, very bright, and in splendid condition, with two first-rate boilers, weighing (with the mountings) about 25 tons, new connection rod, two new fly wheels, saddles, and shafts (about 25 tons in weight), and the whole of the castings and brasses necessary to complete a steam stamps of 26 heads, entirely new, never having been crected.

(The last-named is an exceedingly cheap lot, being all new, excepting the indoors portion of the engine, which is equal to it.)

ONE 30 inch cylinder PUMPING ENGINE, with 8 ton boiler ... 225 0 0

ONE 8-horse power POETABLE STEAM ENGINE, for agricultural parposes ... 45 0 0

.......

ONE 8-ton BOILER
Sixteen heads of STAMPS complete, in wood, iron, and brass, four cams to the round, very good.
TWO 16-head STAMP AXLES, new, four cams to the round, never 30 0 0

worked. 34 0 0

Several 24-head STAMP AXLES, new, round came to the round, never worked. 34 0 0

Several 24-head STAMP AXLES, with the necessary saddles, brasses, braces, cams, tongues, grate plates, stamp heads, entirely new, never worked, at per set of 24 heads 92 0 0

TWENTY 10 inch PUMPS, new, at per cwt. 0 5 0

A large quantity of secondhand PITWORK of all kinds, BALANCE BOBS, SHAFT BOBS, ROD PLATES and BOLTS, FLAT ROPES and PULLIES and various other materials at equality low prices.

WILLIAM DERRY, Apply to-HIGHER FOUNDRY, ST. AUSTELL, CORNWALL.

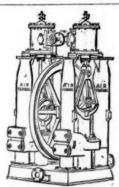


JOHN CAMERON'S

PATENT DOUBLE CAM LEVER
PUNCHING and SHEARING
MACHINE,
114×114 in.×24 in.=8 tons, £185.
EGERTON STREET. HULME,
MANCHESTER.

JOHN C
ST E A M
From 2 to 1
SINGLE AND
W
EGERTON ST

MANCHESTER.



JOHN CAMERON'S PUMPS

From 2 to 12 in. diameter, SINGLE AND DOUBLE-ACTING. EGERTON STREET, HULME, MANCHESTER.

#### In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

TN the MATTER of the COMPANIES ACT, 1862, and of the NORTH DOLCOATH MINING COMPANY.—TENDERS to be addressed to the Registrar of the said Court will be RECEIVED at the Registrar's Office, Truro, until the 3d day of December next, stating the highest price which will be given for the undermentioned

MINING MACHINERY AND MATERIALS, viz.:—

27 9 ft. 11 in. pumps; 2 6 ft. 11 in. matching; 1 7 ft. 11 in. turn pipe; 1 10 ft. 10¼ in. working barrel; 1 11 in. pioe case; 1 9½ ft. 10 in. pole; stuffing box and gland; 1 6 ft. 11 in. windbore; 1 11 in. Hand doorpiece; 15 fms. 2 in. bucket rods; 4 20 in. rod rolls; shieves, wheels, and rolls; flange bolts; two bugle chains; long lifting screw; 6 10 in. bucket prongs; horse whim and shaft tackle; 5 10 in. box prongs and drop clack; and a variety of other articles and effects in general use in mines, and now being in and upon North Dolcoath Mine, in the parish of Camborne, within the said Stannaries.

For further particulars. apply to Mr. CADE, Auctioneer, Helston.

HODGE, HOCKIN, AND MAR RACK, Solictors, Trurb.

culars, apply to Mr. CADE, Auctioneer, Helston. HODGE, HOCKIN, AND MARRACK, Solicitors, Trurb.

#### In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the WEST CONDURROW MINING COMPANY.—By an Order made by His Honor the Vice-Warden of the Stannaries, in the above matter, dated the 18th day of November instant, on the petition of William Harrey, Henry Whitford, John West, William West, William John Rawlings, and William Husband, carrying on business at Hayle, within the Stannaries, under the style or firm of Harvey and Co., contributories and creditors of the said company, it was ORDERED that the WEST CONDURROW MINING COMPANY should be WOUND-UP by this Court under the provisions of the Companies Act, 1862, HOGGE, HOCKIN, AND MARRACK, Solicitors, Trupo. Dated Truro, November 19th, 1867,

#### MOLLAND MINE.

M. R. WM. MANNING will offer FOR SALE, BY PUBLIC AUCTION, on Tuesday, 10th December next, at Twelve o'clock at noon, at MOLLAND MINE, situated about 16 miles from Tiverton and 8 miles from South Molton, the whole of the

MINING MATERIALS

comprising a 7 and 14 inch CYLINDER ENGINE, combined with
gear attached.

drawing gear attached.

A BOLLER, nearly 5 tons; 110 fms. of 9 in. capstan rope; about 72 fms. of pumps, 7, 9, and 10 in. bore; 2 plunger poles, 7 and 9 in., with door H pieces; a large quantity of old wrought and cast-iron; also the "halvans" on the mine. For catalogues, or viewing the same, apply to Capt. Thos. Bennetts, or mine; or to Mr. Manning, Auctioneer, South Molton.

IN THE COUNTY OF CARNARVON.

The ROWLAN AND PENLAN SLATE QUARRIES, held upon lease, of which 86 years are unexpired, at a small ground-rent, and free from royalty. So years are unexpired, at a similar ground-rent, and thee front reviews.

MESSRS, GADSDEN, ELLIS, AND SCORER WILL SELL,
BY AUCTION, at the Mark, Tokenhouse-yard, in the City of Londonon Friday, 6th December, at One for Two o'clock, by order of the mortgagee,
the ROWLIN and PENLAN SLATE QUARRIES, extending over an area of
170 acres, situate in the parish of Caerhyn, in the county of Carnarvon, near the
River Conway.

River Conway.

The property has been most favourably reported on by a well-known manager of slate quarries in North Wales, and, from its admirable position and natural advantages for rapid and economic development, unusual width of vein, proximity to water carriage, coupled with the increasing demand for slates, it is fully believed that with moderate capital the property will prove a highly lucrative

Particulars and conditions of sale may be obtained of Messrs. ELLIS and CROSS-FIELD, solicitors, 2, America-square, Minories, London; of John Parky, Esq., Llanberris: at the hotels at Carnaryon and Conway; at the Mart; and Micers. GADSDEN, ELLIS, and SCORER, 18, Old Broad-street, London.

IN THE MATTER OF THE CRIDDIS MINE, NEAR PADSTOW, IN THE

COUNTY OF CORNWALL.

MESSRS. JAMES CARTER AND SON WILL SELL, BY O'clock in the forenon precisely, at the CRIDDIS MINE, in the parish of PADSTOW, the whole of the

STOW, the whole of the VALUABLE MACHINERY AND MATERIALS Thereon, consisting of

A 40 in. cylinder STEAM PUMPING ENGINE, 9% feet diameter, even be

with BOILER about 11 tons :

A 20 inch cylinder STEAM WINDING ENGINE, winding gear and co ttached, and BOILER about 5 tons;

A 20 inch cylinder STEAM WINDING ENGINE, winding gear and crusher attached, and BOILER about 5 tons;

Eight-arm capstan, capstan shears, balance bob; water wheel, 8½ ft: diameter, 16 in. breast, with iron ring; treble-purchase crab winch, set of large Iron lift. In breast, with iron ring; treble-purchase crab winch, set of large Iron lift. Ing blocks, set of wood ditto, pair of 2½ fiat thread lifting screws, 9 feet, long; 40 fms. of 7 in. and 9 in. main shaft rods, rod plates, and rod pins; one 19fe, 7 in. plunger pole, pole case, stuffing box and gland, H piece, clack doorpiece, and windbore to match; twenty 9 ft. 6 in. pumps; one 19 ft. 5 in. plunger pole, pole case, stuffing box and gland, H piece, clack doorpiece and windbore to match; four 9 ft. 5 in. pumps, twelve 6 ft. 4 in. ditto, one 5 ft. 6 in. plunger pole, one oliven 9 ft. 5 in. pumps, twelve 6 ft. 4 in. ditto, one 5 ft. 6 in. plunger pole, one oliven 9 ft. 5 in. pumps, one 3 ft. 9 in. matching, and various other pumps of different sizes; 20 fms. of 7 in. white rope, 200 fms. of bridge and other pumps of clarge classes; 100 fms. of 7 in. white rope, 200 fms. of bridge and other raise sizes, it of ms. of 7 in. white rope, 200 fms. of bridge and other raise shelves and chain pullies, staples and glands, flange pins, shaft git, sindsone, &c.; two iron underground wagons, one surface ditto, whim kibbles, solides, &c.; two iron underground wagons, one surface ditto, whim kibbles, solides, and the stap of the stap

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TO BE DISPOSED OF, a THIRD INTEREST in a VALUABLE SLATE QUARRY, recently opened by the advertiser and two friend. The vein has been thoroughly tested by a level, proving the existence of a green worked, and is of superior quality and cleavage.

The advertiser is leaving Wales, and would dispose of his interest for a resonable premium on costs out of pocket.

The quarry has immense natural advantages for economical working, is close to a line of railway, has a low royalty, and a long lease.

For further particulars, apply, Box No. 5A, Post-office, Carnaryon,

LATE QUARRY, TO BE DISPOSED OF, situated in the country of MERIONETH, NORTH WALES. The stone is a darkish blee, and of excellent quality; the voins, of which there are three, are one mile long and 100 yards wide. There is a level driven 70 yards long, of which 30 yards through solid state rock. The parish road is within 600 yards of equary, and one mile and a half from the railway station and sea port. It is held under a lease for twenty-one years, at the expiration of which time it is to be quarry and for twenty-one years more; the royalty is 1-12th. This quarry properly worked would, without the least hazard, pay from £10 to £15 per cent. It is considered by men competent of judging that it is one of best quality, and capable of being made equal, if not superior, to any in the country. It is situated between two excellent quarries.

Application to be made to Mr. E. ROBERTS, Quarry Engineer, Bethania, Fedtinics, North Wales, who will give all information and further particulars. October 21, 1867.

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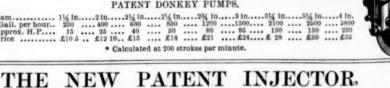
PATENT DONKEY PUMPS.

 
 Ram
 1½ in.
 2in.
 2½ in.
 2½ in.
 2¾ in.
 3in.
 3¼ in.
 3½ in.
 4½ in.
 4 in.

 \*Gall. per hour.
 230
 400
 680
 850
 1200
 1500
 2100
 2500
 3800

 Approx H. P.
 15
 25
 40
 50
 80
 95
 130
 180
 230

 Price
 £10
 £1210
 £15
 £18
 £21
 £24
 £28
 £36
 £35
 \* Calculated at 200 strokes per minute.





FOR FEEDING BOILERS AND RAISING WATER FOR OTHER PURPOSES.

G1		Ram		roke.	Approx	. ho	rse-power	App	IN LON	allons t	hrown per	hour.	min.	Price.
Size.		in.		in.									*******	£10 10
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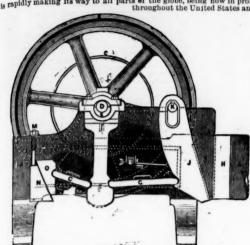
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The comparing than any others, it follows that the saving of metal must be great, because to each worn crucible a quantity of metal ad
In fact, comparing these with other crucibles, the saving of metal and fuel is more than equivalent to their cost.













antity of kilogrammes they will contain; thus No. 100 will contain

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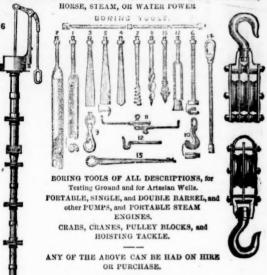
Obtained the PRIZE MEDALS at the "ROYAL EXHIBITION" of 1851; at the "INTERNATIONAL EXHIBITION" of 1862, in London; at the "IMPERIAL EXPOSITION" held in Paris, in 1855; at the "INTERNATIONAL EXHIBITION," in Dublin, 1865; and at the "UNIVERSAL EXPOSITION," in Paris, 1867.



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Mortgages and Loans negociated in curtities. Miscellaneous. ON SALE.—Government Securities reperties paying from 10 to 12 and under the control of the contr	paying from 6 p to 15 per cent.	to 8 per cent., and	other Shares.  other 4000 Bedfo 5000 Bryn 914 Carac
THE LINCOLN	IITED).	COMPAN	Y 2450 Cook' 1055 Cradd 12800 Drak 512 East
To be Registered under the Capital £160,000, in these, 40,000 shares, fully paid-up, paid on are offered to the public	80,000 shares of :	£2 each.	6000 East

Per la sum second pro Militair ma mili gol Capital £160,000, in 80,000 shares of £2 each.

Of these, 40,000 shares, fully paid-up, will belong to the vendors; 29,000, to be paid on, are offered to the public, the holders of such last-mentioned shares being, under contract with vendors, after payment of the purchase-money, entitled to a free allotment of the remaining 20,000 shares as fully paid-up.

10s. per share payable on application, 10s. per share on allotment, and the balance of £1 per share 14 days after receipt of intelligence that the property has been taken over by the company.

Allotments will be made in accordance with priority of application. Where no allotment is made the deposit will be returned in full.

PROVISIONAL DIRECTORS.

WILLIAM R. A. BOYLE, Esq., 12, Old-square, Lincoln's Inn, Director Panther Lead Company. Lead Company.

JOHN WALTER LUKIS, Esq., Woodlands, Isleworth.

THOMAS STAUNTON, Esq., 11, Porchester-square, Hyde-park, Director Chontales Gold Mining Company.

HENRY R. TREHERN, Esq., Clifton-villas, Maida Hill.

ALFRED T. THOMSON, Esq., 49, Gloucester-terrace, Hyde Park, Director Port Phillip and Colonial Gold Mining Company.

EDMUND W. WINGROVE, Esq., South End House, Twickenham, Director Port Phillip and Colonial Gold Mining Company.

ADOLPHUS W. YOUNG, Esq., 14, Pail Mail, Director Scottish Australian Investment Company.

BANKERS. BANKERS.

LONDON AND COUNTY BANK, 21, Lombard-street (and Branches). LONDON AND COUNTY BANK, 21, Lombard-street (and Branches),
Solicitors.

Messrs. YOUNG, JONES, ROBERTS, and HALE, 2, St. Mildred's-court,
Poultry, E.C.
CONSULTING ENGINEER.
JOHN ARTHUR PHILLIPS, Esq.
SEGRETARY

Mr. C. H. FIELDER.
TEMPORARY OFFICES, -35, BUCKLERSBURY, LONDON.

TEMPORARY OFFICES,—3c., BUCKLERSBURY, LONDON.

ABRIDGED PROSPECTUS.

This company has been formed for the purpose of purchasing and working the Harpending and Quarry Gold Mines, situate in the township of Lincoin, Placer county, California.

J. A. Phillips, Esq., has consented to proceed and conduct a mill trial, and verify the above statements, before any payments are made, or the property taken over.

Full prospectuses, and forms of application for shares, can be obtained at the bankers, solicitors, or at the offices of the company.

THE MINING SHARE LIST.

	BRITIS	H	DI	v	DE	N	D M	IIN	ES.							1
han			Paid	1.	Last I	Dp.	Bush	2000.	Total	ı ai	28.	Per	sh	are. Last	paid.	1
	Alderley Edge, c, Cheshire*			0.			as course							0 Nov.		
	Botallack, t. c, St. Just			0.										0. May		
	Brookwood, c, Buckfastleigh			0,.			163							6. Sept.		
	Bronfloyd, I, Cardigan			0			10/	36						0 Nov.		
	Cashwell, I, Cumberland*			0.					. 0	1	6	Ô		6 Aug.		1.
916	Cargoll, s-l, Newlyn			7							0			0. Feb.		
500	Creegbrawse and Penkevil, t		_				61/2 7				0			0Oct.	1867	1
				0	_	• •	072 .	78 .			0			0Oct.	1867	1
	Cwm Erfin, l, Cardiganshire* Cwmystwith, l, Cardiganshire	60		0		••					0			0April		1
				0	_	••								0June		1
	Derwent Mines, s-l, Durham			0	_		420 4		1081					0. Nov.		1
	Devon Gt. Consols, c, Tavistock	40		6	18	••	420 4							0. Sept.		1
959	Ding Dong, t, Gulvalt	128			-	••			834					0Oct.	1867	1
	Dolcoath, c, t, Camborne			6			*9/				6			0July		2
	East Caradon, c, St. Cleert	32		0	6%		534	6			0			O. Oct.	1867	1
	East Darren, l, Cardiganshire	24			_	••					0			0. Nov.		1
	East Pool, t, c, Pool, Illogan	3		0			0.01	,			6					
	East Wheal Lovell, t, Wendron.			0	81/4		8 81/							8Aug.		5
	Foxdale, l, Isle of Man*	25		0	-	**								0. Sept.		
	Frank Mills, I, Christow			6	3.0						6			0. Feb.		11
	Great Laxey, l, Isle of Man*	4		0			17 18							0. Sept.		1
	Great Wheal Vor, t, c, Helstont	40		0			714 13				6			6. Sept.		
1024	Herodsfoot, I, near Liskeardt			0			38 4							O. Oct.		4
6000	Hingston Down, c, Calstockt			6	-			**	400		0			0. April		2
	Lisburne, l, Cardiganshire		15	0	-						0				1867	1
	Maes-y-Safn, l, Flint*	20	0	0	31		29 3				0			0Nov.		
	Marke Valley, c, Caradon			6	63/8		614 6				0			0. Oct.	1867	1
3000	Minera Boundary, I, Wrexham.	1	0	0			170 18	80			0			0 Mar.		
1800	Minera Mining Co.1, Wrexham*	25		0										0. Nov.		1
	Mining Co. of Ireland, c, l, cl	7		0			17			-		0		7Jan.		Li
0000	Mwyndy Iron Orest	8		0							6			6 Mar.		
200	Parys Mines, c, Anglesey*	50		0	Menun									0Jan.		1
2800	Prince of Wales, t, Calstock		12		1%		50s. 5	28			6			0Nov.		1
6000	Prosper United, t, c, St. Hilary	8	14	0	-				0		0			0 Feb.		1
1120	Providence. t, Uny Lelantt	10		7	291/6		29 30	)	83					0Aug.		1
512	South Caradon, c, St. Cleert	1	5	0					263						1867	1
0000	South Darren, I, Cardigan	3		6	-						11.				1867	1 2
496	So. Wh. Frances, c, Illog. tt			9	321/2		31 33	3	372	13	6	1		0 Nov.		1 2
508	Summer Hill, I, Mold	3	13		-				1	7	6	0	7	6Nov.	1867	1
8000	Tincroft, c, t, Pool, Illogant	9	0	0	13	1	31/4 14	11/2			0			0Aug.		
0009	Trumpet Cons., t, Helston	11	10	0	-				11	12	6	0	7	6Aug.	1867	1 2
1000	W. Chiverton, I, Perranzabuloet	10	0	0	72				21	7	6	2	0	0Aug.	1867	4
400	W. Wheal Seton, c, Cambornet	47	10	0	190		180 19	00	480	10	0	4	0	0. Oct.	1867	
512	Wheal Basset, c, Illogant	5	2	6			90 95		627	0	0	2	0	0. Oct.	1867	1 :
	Wheal Friendship, c, Tavistock	20	0	0	-				300	10	0	0	10	0 Nov.	1866	
295	Wheal Kitty, t, St. Agnes	5		G.,			234 33							0 Nov.		1
024	Wheal Mary Ann, I, Menheniott	8	0	0.,	21	1	91/6 20		62	10	0	0	15	0Sept.	1867	10
	Wheal Rose, c, Scorrier		mino						1	0	0	0	10	0 Feb.	1866	1 !
	Wheal Seton, t, c, Camborne	88	10	0	100	9	714 10	21/2							1867	1 5
	Wheal Trelawny, s-l, Liskeardt		17											0June		1 3
000	Whitewell Lead, Clitheroe		5				178.							0. July		1 .5
	Wicklow, c, i, Wicklow		10		18%									0 Oct.		15
		-	-		/-	-		3.0								1
	FOREIG	N	DI	IV	IDE	N	D A	IIN	ES.							1 1
	I OMETO.		-			44	-									1

TORBIGE DIVIDED I	*** ** ***
25000 Alamillos, l, Spain*1 2 0 0	0 1 0 0 1 0Oct. 1867
20000 Australian,c, South Australiat 7 7 6	0 1 0 0 1 0 Aug. 1867
15000 Cape Copper Mining*† 7 0 0 714 7 714	2 12 6 0 10 0 April 1866
76000 Don Pedro North del Rey 12 0 14 0 3 21/4 23/4	0 7 9 0 8 6 Aug. 1867
25000 Fortuna, l, Spain*† 2 0 0	1 7 4 0 2 0 Oct. 1867
20000 Gen.MiningAssoc., NovaScotiat 20 0 0 14 16	23 10 0 0 15 0 June 1867
10000 Gonnesa, l.* [5000 £5 pd., 5000 £4 pd.]	10 per cent July 1867
68000 Kapunda Mining Co., Austratt 1 0 0 1/2 3/8 1/4	0 0 10 0 0 10Nov. 1867
15000 Linares, t, Spain*t 3 0 0	11 8 4 0 2 0Oct. 1867
50000 Panulcillo, c, Chili*† 3 0 0 2 21/4	10 per cent Yearly.
6000 Peel River Land and Mineral* 100 0 0 83 35	
80000 Pestarena, g, Italy*† 2 12 6 234 21/2 23/4	0 2 6 0 2 6 Mar. 1867
100000 Pontgibaud, s-l, Francet 20 0 0	4 14 3 0 11 0 June 1867
10000 Port Phillip, g, Clunest 1 0 0 114 11/8 11/4	0 18 6 0 1 0 Oct. 1867
20000 Scottish Australian Min. Co. t. 1 0 0 % 1%	7% per cent Nov. 1867
11000 St. John del Rey, Brazil*† 15 0 0 61 59 61	77 5 0., 4 10 0. June 1867
50000 Victoria (London) [25000 £1 pd., 25000 12s. 6d. pd.]	0 9 0 0 1 0Jan. 1866
40000 West Canada Mining Co 1 0 0	0 19 6 0 2 6 May 1866

#### NON-DIVIDEND FOREIGN MINES.

Shares	Mines.								ne. Last		
	Anglo-Brazilian, g*†		10			96	2	2 3/8	Nov.		1 4
12500	Anglo-Italian, g*t	0	5	0		-	9	4 5/6	May	1867	1
2464	Burra Burra, c, South Australia!							2736			4
25000	Capula, s. Mexico*+	1	12	0 .					Aug.	1866	1 5
30000	Chontales, g, s, Nicaragua*†	4	10	0 .		3%	. 33	35%	Nov.	1867	16
12000	Cobre Copper Company, c, Cubatt	43	10	0		-			May	1867	1
	Copiapo Mining Company, Chilit	16	10	0		-					
10000	Coplano Smelting, Chill*	10							April	1866	1
300	Copper Miners' Co. of South Australia* [150 £100 pd.,	, 150	O £	70	pd.]				Nov.	1866	1 5
15000	El Chico Silver Mining and Reduction Company	5	0	0		-			Nov.		1
8000	English and Canadian Mining Company	5	0	0		_			Fully	pd.	1 3
40000	Fortune Copper Mining Co. of Western Australia	2	0						Fully	pd.	1 1
50000	Frontino and Bolivia, g. New Granada*†	1	15	0 .	. 18	· 10		% 1	June		1 1
10000	Great Barrier Land, Mining, &c., New Zealand	5				-			Fully		1 6
80000	Great Northern, c, South Australiat	1	11			-			Sept.	1862	1 6
7927	Lusitanian (Portugal) 1	3	0			-					12
	Mariquita, g, Brazil	0	17						Sept.		1 8
	Nerbudda Coal and Iron, India **	5	0					5	Aug.	1865	1 6
	New Quebrada, c, Venezuela*†		10								1 5
	Nova Scotia Land and Gold*		15						Sept.		1 3
	Otea, c, New Zealand*	2	0	0 .					Fully		5
	Rhenish Consolidated, l [6000 £5 pd., 4178 £2 10s. pd.]		-						May		1
	Rossa Grande, g, Brazil*†	0	12			34.	. 1/4	78	June		
	San Pedro del Monte, s, Mexico*	4	0						Sept.		12
	San Roque, l, Spain	5		0 .	-				Fully		6
00000	Taquaril, g, Brazil*	0	5						Oct.	1867	2
6000	Terreseu, s-l, Isle of Sardinia	2		0 .							3
43174		28	5				. 1	1%			5
	Vancouver, cl*f2	6				***					3
6000	Val Sassam, s, c, l, Italy*	7							Ang.		16
<b>£</b> 5000	Victor Emanuel, c, Italy	1							Fully		20
20000	Washoe, g, Nevadat	8	-						Fully		
80000	Worthing, c, South Australia *	1		0 .	_		. 1/4	78	Fully		12
75000	Yorke Peninsula, South Australia	1	4	0 .					Fully		
15000	Yudanamutana, c, South Australia * 12	8	0	0.			. 3	6.1	Fully	pd.	3

#### NON-DIVIDEND MINES.

	NOW-DIAIDEND W	III EG.					1 3
Share	Mines.	Paid. 1	ast I	r. Bus. do	ne. Last	Call.	1
4000	Bedford United, c, Tavistock*	. 2 68	-	1 1%			1
5000	Bryn Gwiog, I, Flint	0 18 9	omes		June	1864	1
914	Caradon Consols c, St. Cleer	32 13 6	-		Ang.	1867	
1000	Carn Brea, c, t, Illogant	28 00	321/2	25 27%	May		i
	Carnaryonshire, I, Carnaryon*		43/4	4 41/4	Fully		
3000	Chiverton, I, Perranzabuloe	9 76		5 51/2	May		1
2000	Chiverton Moor, I, Perranzabuloe	6 86	51/6		Aug.		
2880	Clifford Amalgamated, c, Gwennap!	33 17 6	634				
2048	Colquite and Callington United, c, Callington	0 50	-	21/8 23/8	Sept.	1867	
256	Condurrow, c, t, Cambornet	76 10 0		*****			
2450	Cook's Kitchen, c, Illogan!	19 14 9		934 934	July		
1055	Craddock Moor, c, St. Cleer:	12 12 0	-	** ** **	Sept.		1
	Drake Walls, t, Calstock		94	% %	Dec.		1
	East Basset, c, Redrutht		13	10 11	July	1867	
	East Carn Brea, c, Redruth:		276	2 21/4	**		1
6000	East Grenville, c, Camborne	3 96	21/2	90- 97-	Aug.		1
	East Wheal Russell, c, Tavistockt			.,33s. 35s.	Oct.	1867	
6144	Gonamena, c, St. Cleer	7 26	416	4% 4%	Oct.	1867	1
5000	Great North Downs, c, Redruth	6 13 0	275	. 3 31/4	July	1867 1867	
	Great Retallack, s-1, b, Perranzabuloe				.Oct.	1867	L
	Great South Chiverton, s-l, Perranzabuloe		1%	34 %	June		1
	Great South Tolgus, c, Redruth		74		July		
			_			1867	
400	Nanglies, t. c. Kea		_	50 60	Ang.		
9457	North Downs, c, Redruth	5 3 10	-	** % 1	Sept.		
605	North Roskear, c, Camborne	54 17 0	4	** /0 *	Nov.		1
5926	North Treskerby, c, St. Agnes	1 90	248.	33s. 35s.	Dec.	1860	
5610	North Wheal Crofty, c, Illogant	3 11 3		21/4 3	July	1866	
2000	North Wheal Chiverton, I, Perranzabuloe			41/4 43/4	Mar.	1867	1
	Old Westminster, I, Denbigh		41/4	4 41/4	June	1867	
	Pedn-an-drea, t, Redruth		-		Nov.		
1024	Rose and Chiverton United, I, Newlyn	5 00	61/4	61/2 7	Nov.	1867	
6138	South Condurrow, t. c. Camborne	3 18 6	5/8	3/8 3/4		1867	
	St. Ives Consols, t, St. Ives:	10 15 0	-		Nov.		-
920	Stray Fark, c, t, Cambornett	44 08	-	35	Oct.	1867	1
6000	Tamar Valley, s-l, Beeralston		-		Nov.		
	Trelyon Consols, t, St. Ives	16 00		** 41/ 49/	Dec.	1866	- (
6000	West Basset, c, Illogant?	1 15 0	11/4	11/4 13/4	Mar.	1867	1
1024	West Caradon, e, St. Cleer tt	19 00		61/2 71/2			1
2800	West Drake Walls, c, Calstock	0 26		68. 88.		1901	
	West Godolphin, t,c, Breage		4	: 314 334	Tone	1000	
2582	West Great Work, t, Breage	5 11 0		3/8 5/8	Out	1900	
6000	West St. Ives, t, c, St. Ives		78	3/4 1/4		1867	1
	West Wheal Kitty, t, St. Agnes		134	36s. 38s.	Inty	1867	1
6000	Wheal Agar, c, Illogan	7 8 6 22 15 0	25			1867	1
812	Wheal Crebor, c, Tavistock	2 56	20		Nov.		1
	Wheal Emily Henrietta, c, Illogan	19 50	10			1867	
	Wheal Grenville, c. Cambornet	10 50	156	28e. 25s.	Sept.		1
	Wheal Uny, t, c, Redruth	10 14 6	7/8			1867	1
0000	m mone only of of mone money and a second money and					1	

#### NON-DIVIDEND MINES,

	Shares. Mines. Paid, Last p. p.	-
-	1031 Bedol Aur, l, Holywell 1 12 0	le,
1.	1248 Boscaswell, t. c. St. Just 7 6 0 2500 Bosworthen and Penzance. 4 0 0	ı
7	1200 Bryn Gwyn, I, Mold*2 9 0 0	ı
6	1000 Budnick Cons., c, t, Perranz.	П
6	5094 Bwich Consols, s-l, Cardigan 4 0 0	ı
7	30000 Caldbeck Fells.   Cumberid.   1 10 0.   1000 Camborne Consols.   18 10 0.   4600 Camborne Vean&Wh. Frn.   11 14 7.   11000 CapeCornwall.	ı
7	11000 Cape Cornwall, t, c* [8000 £2 108. pd., 3000 258. pd.] 1000 Cardynham China-clay* 3 0 0	ı
7	4005 Cardigan Consols* 5 0 0 1	ı
7	20000 Carysfort [3200 £2½ pd., 16800 £1½ pd.]	ı
7	2500 Central Millera, t, Wrexham* 3 17 6 16000 Central Snailbeach l* 1 0 0	Н
7	4000 Clara, l. Llywernog 2 18 6 2½ 50000 Connorree, c, sul, Wicklow. 1 0 0 78 2¾ 1024 Copper Hill. c. Redrutht 18 10 78 74 74	ı
6 7	1024 Copper Hill, c, Redrutht 12 10 0	н
7 7	16000 Central Snailbeach   1	ı
6 7	25000 Dule, t, North Stanord 1 0 0 25000 Dundalk, Ireland, t* 0 15 0 740 Eaglebrook, L. Talybont* 10 15 0	ı
7	1000 East Basset and Grylls, t 3 5 0	ı
3	4000 E. Gunnislake & S. Bed. c 10 10 0	ı
7 3	6000 East Laxey, l, Isle of Man. 2 15 0 11/2 13/4	п
3 7	6000 East Snaefell, l, I. of Man*. 2 0 0	П
		ı
	5000 E. Wh. Rose Con., I, Per	н
	6000 Fortescue Cons., c, Tavistock 0 12 6.	П
	940 Fowey Conc, Tywardreath; 5 4 6 4000 Gawton, c, Tavistock 8 10 6 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3% 3%	ı
	6900 Gen. Min. Co. for Ireland, c. 5 10 9. 22% 10000 Glasgow Caradon c* [30000 £1 pd., 10000 10, pd.] 2 2% 5700 Goginan, Cardigon, I	
1	6000 Gothic, s-l, Cardigan* 2 10 0	
1	1000 Great Cwmsymlog, s-l* 1 15 0	ı
1	4096 Great Caradon, c, St. Ive 3 15 0	
1	3000 Gt. East Lovell, t, Helston. 2 1 0 5000 Great Mona, t, Isle of Man*. 4 0 0	
1	1000 Great N. Tolgus, c, Illogan 10 0 0 4	
1	3313 Gt. Wh. Baddern, t, Devoran 7 17 6	
	119 Great Work, t, Germoe 100 0 0 10240 Gunnislake (Clitters'), t, c. 4 19 0	
	6006 Gwydyr Park, I, Llanrwst   114 0   600	
	1019 Leeds and St. Anbyn, t, c 19 13 4	
	2325 Lonsdale Iron Co. [650 £5 pd., 1675 £3 pd.]	н
	6000 Mandlin, c, Lostwithiel 4 7 0	П
	640 Mount Picasant, l, Mold 4 0 0	ı
	6000 Mid-Wales, s-f, s-m. 1 10 0. — 640 Mount Picasant, t, Mold 4 0 0. — 12800 Nether Hearth [6400 £1 pd., 6400 2s. pd.]	ı
	1500 New Chiverton, I, Perranz 0 20 5s, 6s, 6000 New Clifford, c., Gwennap*. 2 10 0	ı
	12800 New Birch Tor & Vitifer, 'L., 1 13 6 1500 New Chiverton, I, Perranz 0 2 0 55, 65, 6000 New Chiverton, I, Perranz 0 2 0 55, 65, 6000 New Cifford, c., Gwennap*. 2 10 0 55, 65, 6000 New Cornish [12000 £1 pd., 12000 15s. pd.] 6400 N. Crow Hill, t. St. Stephen. 3 4 0 6514 New E. Russell, c. Taristock 0 12 6 20000 New Gt. Cons., c, Taylstock* 0 15 0	п
	6514 New E. Russell, c. Tavistock 0 12 6	ı
1	3000 New Huntingdon, t, Devon 14 6400 New Pembroke, St. Blaz. t, c 1 7 0	ı
	5755 New Treleigh, c, Redruth . 4 8 0 667 New Trevenen, t, Wendron, 12 1 6	ı
	2000 N. Wh. Towan, c, t, Wendron 1 10 0	ı
1	16000 North Devon, s.l. Plympton. 0 18 0 — 5000 No. Dolcoath, c, Camborne. 4 3 0 —	ı
	6000 North Jane, t. s. l. Kenwyn 3 1 6	п
	2000 North Levant, t, c, St. Just., 10 12 0	п
		ı
1	1935 No. Shepherds, l, Newiyn 6 10 0 — 6000 North Wheal Basset, c, lt 5 0 0 —	п
1	6144 N.W. Robert, c, Smp. Spiney 4 8 11. — 12288 Okel Tor, c, Calstock 2 7 4 34 14.24	ı
	8000 Old Gunnislake. c, Calstock. 2 15 0 — 7. 78. 6400 Par Consols, c, St. Blazeytt. 2 14 6 —	
1	5000 Pendeen Consols, c, St. Just. 6 11 0 — 3120 Penhale Wh. Vor, t, c, Breage 4 2 6 —	
1	5000 Penhalls, I, St. Agnes 3 0 0	п
1,	512 Polbreen, t, St. Agnes 8 0 0	ı
1	6000 Reinnie Laxey, l, I. of Man. 4 0 0 — 2000 Rosecliff and Tolcarne, l 9 0 0 —	
1	3973 Rosewarne Cons., c, Gwinear 5 12 6 — 5915 Rosewall Hill & Ransom, c., 3 0 0 —	
1,	2848 Rosewarne Un. c. t. Gwinear 4 2 0	
1	10500 Spacfell, l. Isle of Man* 1 0 0 —	
1	2000 Sortridge Cons., c, Tavistk.† 1 14 6 — 512 South Basset, c, Gwennap 27 0 0 — 5 71/4	
	6000 So. Fowey, c, Tywardreath 0 10 0 — 1024 So. Herodsfoot, l, Liskeard 11 10 0 —	
1		
	937 So. Wh. Crofty, c, Illogan. 24 10 10 151/161/2	
	400 So. Wh. Seton, c, Camborne 81 3 0 — 59 Spearne Consols, t, St. Just 16 17 6 —	
1	242 Spearne Moor, t, St. Just 6 2 0 — 673 St. Ives Wh. Allen, t, St. Ives 18 16 7 —	
	8771 St. Just Amalg., t,* [6000 £3 10s. pd., 2771 £2 5s. pd.] 300 Steeple Aston Iron Ore Co 4 0 0 5	
	6000 South Wheal Grenville, t.c. 1 0 6 — 400 So. Wh. Seton. c. Camborne 81 3 0 — 59 Spearne Consols, t. St. Just. 16 17 6 — 242 Spearne Moor. t. St. Just. 6 2 0 — 673 St. Ives Wh. Allen, t. St. Ives 18 18 7 — 8771 St. Just Amalg., t.* (6000 £3 10s. pd., 2771 £2 5s. pd.) 300 Steeple Aston Iron Ore Co 4 0 0 5 7000 Stiperstones, t. Salop* 5 0 0 — 500 Tin Hill, t. St. Austell 1 12 0 — 501 Tresavean and Trethurrup. 16 11 0 — 4440 Trevenen & Tremenheore 7 11 0 —	
	501 Tresavean and Trethurrup 16 11 0 — 4440 Trevenen & Tremenheero 7 11 0 —	
	201 Preserved and Tremenheoro 7 11 0	
	6400 Tyne Head, Northumb. t, c* 0 18 0 — 4200 Vigra and Clogau, c, Dolg. *‡., 5 0 0 —	I
1	2500 West Briton, Crowan 1 0 0 — 1319 West Cwm Erfin, l* [319 £4 paid] —	
1	256 West Damsel, c, Gwennap., 38 10 0	J
1	6000 Westminster, Flint, l* 5 0 0 — 2800 West Prince of Wales, c 0 10 0 — ½ %	۱
	1000 West Rose Down, c. Linking, 19 15 0	
	512 West Tolgus, c, Redruth 58 10 0 —	
	741 Wheal Basset and Grylls, f., 7 18 6	
-	3000 Wheal Emily, s, Callington 2	
	1024 Wh. Kitty, f, Uny Lelantt. 3 10 6 — 3 12 Wheal Jane, s-l, Kea 10 10 0 271/2 30 83	
	896 Wh. Margaret, t. Uny Le. 2. 13 17 6	
	and Wheel Mary Florence et 9 9 0	
	80 Wheal Sparnon, c. Redruth. 3 12 0	
	1920 Wheal Trevenna, t, c* 1 13 3 — 1920 Wheal Trevenna, t, c* 10 0 0 —	
-	MISCELLANEOUS.	

MISCELLANEOUS.

60000 Anglo-American Telegra, \*† 10 0 0. 17%... % 1

20000 Central American Associ... † 1 0 0... — ... % 1

42000 Copper Miners of Eng. † (2000 £25 pd., 40000 £100 pd.)

80000 Ebbw Vale Iron Co... † ... 27 10 0... ½...

70000 English and Australian, c† 2 10 0... ½...

4000 Hollybush Coll. and Coke\*. 5 0 0... — ...

148225 London Gen. Omnibus ... † 4 0 0... ½%...

25000 Mining Association\*... 1 0 0... 1 ...

b, blende; cl, coal; c, copper; g, gold; l, lead; s, silver; sl., slate; s-l, silver-lead; t, tin; z, sinc.

\*.\* Companies marked thus \* have been Incorporated with Limited Liability; those marked † have been admitted on the Stock Exchange, those marked thus ‡ have paid Dividends.

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